

# Chemical analyses of selected public drinking water supplies (including trace metals). No. 53 1972

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# CHEMICAL ANALYSES OF SELECTED PUBLIC DRINKING WATER SUPPLIES (INCLUDING TRACE METALS)



# **ABSTRACT**

Drinking water supplies utilizing ground and surface water sources were sampled for trace elements in addition to the standard chemical analysis. None of the raw water samples exceeded the Public Health Service Drinking Water Standards for chemical quality, and only one sample from a distribution system exceeded the standards. The one parameter exceeded was lead (.06 mg/l reported, .01 mg/l higher than the standard) which leached from a service line because of corrosive water in the distribution system. Corrosive water in other systems also caused increased concentrations of copper and zinc.

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**ACKNOWLEDGMENTS** 

# CHEMICAL ANALYSES OF SELECTED PUBLIC DRINKING WATER SUPPLIES (INCLUDING TRACE METALS)

By

**Robert Baumeister** 

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DEPARTMENT OF NATURAL RESOURCES
Madison, Wisconsin
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# INTRODUCTION

Use of metals with known toxic effects has increased greatly in Wisconsin and the United States during the past 20 years and will undoubtedly continue to increase in the future. Nationwide, over 9,000 synthetic compounds are now in commercial use in amounts of over 1,000 pounds per year each. In 1968 they totaled nearly 120 billion pounds--a 15 percent increase over 1967, and a 161 percent increase over 1960. A recently completed survey by the Department of Natural Resources disclosed 725 instances of admitted discharges of heavy metals or toxic substances in Wisconsin (594 claimed discharges of less than 25 pounds per year). These discharges totaled slightly less than 1 million pounds of chemicals released into the soil, water and air (Ostrander, 1971). As one would expect, the majority of discharges are in industrial areas with the largest concentration in southeastern Wisconsin.

With the ultimate disposal of these chemicals within our environment there must be concern for those that may enter surface waters or ground water aquifers which are used for drinking water.

In January, 1971, a detailed study of chemical constituents in raw and treated public drinking water was initiated with three purposes in mind:

- (1) To determine if raw water sources and treated water being distributed by public water supplies meet the chemical quality of the Public Health Service drinking water standards.
- (2) To establish baseline chemical concentrations of water sources so comparisons can be made in future years.
- (3) To investigate the efficiency of various treatment processes in trace element removal by comparison of raw and treated water analyses.

The emphasis of the study was on the heavy metals and trace elements although the standard chemical analyses were also performed for additional background data on corrosiveness, hardness and other factors that could affect the finished water quality. Results and discussions that follow will generally be limited to the heavy metals and trace elements.

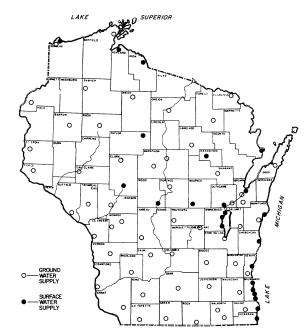
The Public Health Service drinking water standards provide generally accepted standards for toxic substances in public water supplies. These standards offer mandatory limits which, if exceeded, may result in adverse effects on health, and recommended limits which should not be exceeded whenever more suitable supplies are, or can be made available at reasonable cost. Reference to standards in this report will mean the U.S. Public Health Service Drinking Water Standards (1962). Since the toxic effects of chemical substances to man are discussed in the drinking water standards, they will be only briefly referred to here.

# **METHODS**

The survey included raw and treated water samples from all of the treatment plants in the state that utilize a surface water source and samples from ground water sources selected to obtain a representative sampling of all major ground water aquifers in Wisconsin. Figure 1 shows the geographical distribution of the sampling locations and Figure 2 shows the location of the ground water supplies relative to the geologic formations. A total of 53 ground water supplies and 23 surface water supplies were sampled.

District Engineers of the Department of Natural Resources obtained the samples and fixed or acidified them as necessary. Glass bottles were used for the heavy metal samples and plastic bottles for the remainder. Composite samples were obtained at the surface water supplies when the necessary arrangements could be made, whereas the ground water samples were mostly grab samples.

FIGURE 1. Sampling locations for trace element survey.



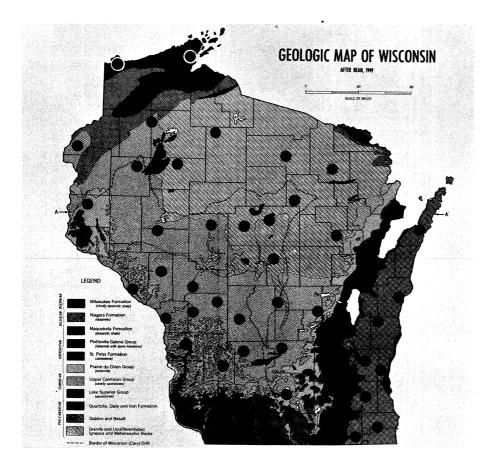


FIGURE 2. Location of ground water supplies sampled in respect to geologic formations.

# **RESULTS AND DISCUSSION**

Following is a summation and discussion of the sampling results for the major parameters. Data on individual analyses are presented in Appendix B.

# Methylene-blue-active substances (MBAS)

These substances are principally indications of synthetic detergents. In 1965 the detergent industry converted from ABS to the more biodegradable LAS compounds.

Recommended Standard: .5 mg/l Survey Results and Comment: 97 percent of samples contained less than .1 mg/l while the remaining 3 percent contained less than .2 mg/l. This indicates that detergents are not a significant factor in the water.

#### Ammonia (N)

Ammonia is frequently an indicator of recent sewage pollution and is significant in raw water sources since it reacts with chlorine to form compounds with markedly less disinfecting efficiency than free chlorine. Ammo-

nia in treated water is indicative of ammonia addition in the treatment process for combined residual chlorination.

Recommended Standard: The permissible criterion developed by the National Technical Advisory Committee on Public Water Supplies is .5 mg/l (N), and the desirable criterion is less than .01 mg/l.

Survey Results and Comment: Only surface water supplies were sampled. Values ranged from .03 to .19 mg/l in raw water with an average of .11 mg/l. Treated water samples varied from .03 to .54 mg/l with an average of .14 mg/l. All raw water samples were within the permissible criterion but exceeded the desirable criterion.

#### Arsenic

The use of inorganic arsenic in insecticides and its presence in animal foods, tobacco and other sources, make it necessary to maintain the surveillance of arsenic in drinking water. Toxicity of arsenic is well

known.

Mandatory Standard: .05 mg/l Survey Results and Comment: All samples were less than .02 mg/l, which is well below the standard.

#### Barium

In addition to occurring naturally as the carbonate salt, barium may also appear in certain types of industrial wastes.

Mandatory Standard: 1.0 mg/l

Survey Results and Comment: All but two of the samples contained less than .5 mg/l. The other two samples were reported as .5 and 1.0 mg/l. Since both samples were from deep sandstone wells which should not be subject to industrial pollution, the results seem questionable. Therefore, both supplies are being resampled.

#### Boron

Boron may occur naturally in ground and surface waters with concentrations of 5 to 15 mg/l in the western United States, whereas concentrations of less than 1.0 mg/l are

normally found elsewhere. In addition to occurring naturally, boron may also be introduced to a watercourse by certain industrial waste effluents.

*Mandatory Standard (Proposed):* 1.0 mg/l

Survey Results and Comment: 97 percent of the samples contained less than .02 mg/1, 2 percent at 0.2 mg/l and 1 percent greater than 0.2 but less than 1.0 mg/l. The proposed standard (to be included in the next edition of the drinking water standards) was not exceeded in any of the samples.

#### Cadmium

Cadmium may be found in the effluents of industrial plants, such as those doing electroplating and in water being transported in zinc-galvanized iron pipes which contain cadmium as a contaminant. Only minute quantities are found in natural waters. As the result of some cases of food poisoning in the United States, cadmium is regarded as having serious toxic potential.

Mandatory Standard: .01 mg/l

Survey Results and Comment: All samples contained less than .01 mg/l which is the sensitivity of the analytical method used.

#### **Chromium (Hexavalent)**

Chromium salts are used extensively in industrial processes and frequently added to cooling water for corrosion control.

Mandatory Standard: .05 mg/l

Survey Results and Comment: The standard was not exceeded as all samples contained less than .03 mg/l. Toxicity studies have indicated that the standard of .05 mg/l is sufficiently low to cause no effect on health.

#### Copper

Copper service lines and brass and bronze fittings containing copper are used extensively in most water distribution systems.

Recommended Standard: 1.0 mg/l Survey Results and Comment: 75 percent of the samples contained less than .03 mg/l, 18 percent between .03 and .1 mg/l, and 7 percent between .1 and 1.0 mg/l. None of the samples exceeded the standard. Concentrations greater than 1.0 mg/l may cause undesirable tastes and blue-green stains on plumbing fixtures. It is interesting to note that all but two of the samples which contained between .1 and 1.0 mg/l were from distribution systems. Further investigation reveals that all

but one of those supplies containing concentrations in the .1 to 1.0 mg/l range have corrosive water as indicated by the Langelier Index method. This supports the theory that the copper concentrations are due to corrosion of copper service lines and plumbing and points out the importance of maintaining a stable or noncorrosive water in the distribution system.

#### Cyanide

Due to the lengthy analytical procedure only nine finished water samples from surface water supplies were analyzed.

Mandatory Standard: .2 mg/l

Survey Results and Comment: 67 percent were less than .02 mg/l and 33 percent were less than .01 mg/l. None exceeded the standard.

#### Lead

The presence of lead in a water supply generally arises from industrial discharges or dissolution of lead plumbing. With the exception of the lead ore area in southwestern Wisconsin, natural water does not normally contain any appreciable amount of lead.

Mandatory Standard: .05 mg/1

Survey Results and Comment: 99 percent of the samples contained less than .05 mg/l, 51 percent less than .04 mg/l, and 1 percent or one sample at .06 mg/l. The one sample that exceeded the standard was from a distribution system with a portion of the service line being of lead material. Computations using the Langelier Index indicate that the water is quite corrosive. Further sampling will be done to determine if this condition still exists or whether it was caused by the water being in contact with the lead service line over a period of time. Mercury

In early 1970 the discovery of high mercury residues in fish taken from the Wisconsin River downstream of a mercury cell chlorine-caustic plant caused much concern. Consumption of the fish was discouraged since the "action level" of .5 mg/l as established by the Food and Drug Administration was exceeded. Studies of surface water sources used for drinking water revealed mercury concentrations less than .0002 mg/l in all cases.

*Mandatory Standard (Proposed):* .05 mg/l

Survey Results and Comment: All samples showed concentrations of less

than .0002 mg/l which is considerably below the proposed standard.

#### Silver

In nature, silver is found in the elemental state and combined in several ores. Traces of silver could also be expected to reach natural waters from various manufacturing processes such as electroplating and in the processing of food and beverages.

Mandatory Standard: .05 mg/l Survey Results and Comment: All samples contained less than .04 mg/l. Zinc

Zinc most commonly enters the supply from the deterioration of galvanized iron pipe and brass. Since cadmium and lead are common contaminants of zinc used in galvanizing, there is concern when concentrations approach the standard.

Recommended Standard: 5.0 mg/l Survey Results and Comment: 78 percent of the samples contained less than .1 mg/l, 16 percent between 0.1 and 1.0 mg/l, and 6 percent between 1.0 and 1.4 mg/l. A Langelier Index determination for those supplies with zinc concentrations over .5 mg/l revealed that all but one of the supplies were distributing a water that had corrosive tendencies. The samples with zinc concentrations up to 1.4 mg/l did not contain any significant amounts of cadmium or lead.

Values obtained in this survey were similar to those reported by the U.S. Geological Survey in their 1970 survey of surface waters in the United States, and by the Public Health Service in their analysis of Wisconsin interstate carrier drinking water.

The attempt to investigate the efficiencies of various treatment processes in trace element removal was inconclusive. A comparison of the raw and treated water analyses showed slight reductions of copper and zinc in several cases when the raw water contained greater than .1 mg/l of the element. In most cases, both the raw and treated water concentrations were so low the sensitivity of the analytical method did not indicate any change due to the treatment process.

# **SUMMARY AND CONCLUSIONS**

The survey shows that there are low concentrations of trace elements distributed throughout the state. Present water sources, however, do not contain any appreciable quantities that would affect the water quality to the consumer. All of the water sources meet the drinking water standards of

the Public Health Service. Increased concentrations of copper, zinc and lead point toward the deterioration of water quality in distribution systems with corrosive water. Concentrations of these elements may exceed the standards unless proper corrosion control or stabilization is practiced.

# **FUTURE PLANS**

Surveillance of trace elements in Wisconsin water supply sources will be continued. A number of surface water supplies will be monitored year around to determine if there are water quality changes due to changing wind directions, season of the year, etc. This should provide more accurate information than grab or short-term composite samples. Future sampling will also be

coordinated with other Bureaus within the Department as surveillance of industrial waste discharges receives increased emphasis. For instance, those supplies near industrial areas will be checked for the particular chemicals utilized by those industries. Additional parameters will be included in the analyses as the necessary laboratory equipment is obtained.

# **APPENDIX A: Analytical Procedures**

ABS (MBAS): Methylene blue reacts with alkyl Benzene sulfonates to form a colored complex which is soluble in chloroform. The acidified sample to which methylene blue has been added is extracted once with chloroform. The color intensity of the chloroform layer is proportional to the MBAS and is compared visually to standard solutions of copper sulfate.

Alkalinity: Titration is with 1/50 normal sulfuric acid to pH values of 8.3 and 4.6 for the phenolphthalein and total alkalinities respectively, using a pH meter. Results are expressed as the equivalent concentration of calcium carbonate.

Ammonia: Distilled from solution adjusted to pH 7.4 and collected in distilled water, the concentration is determined by nesslerization and use of a spectrophotometer.

Arsenic: Reduced to arsine by zinc in sulfuric acid. The arsine is passed into a tube containing silver diethyldithiocarbamate dissolved in pyridine forming a red complex which is measured spectrophotometrically.

Barium: Atomic absorption, wave length at 5536 A.

Boron: A sample of water containing boron is acidified and evaporated in the presence of curcumin. A red-colored product is formed called roso-cyamine which is dissolved in ethyl alcohol and determined spectrophotometrically.

Cadmium: Sample aspirated directly into the flame of an atomic absorption spectrophotometer and measured at a wave length of 2288 A.

Calcium: Complexed with EDTA using powdered murexide as end-point indicator.

Chloride: Titrated with silver nitrate using chromate as the end-point indicator.

Chromium: Atomic absorption, wave length at 357.9 A.

Copper: Atomic absorption, wave length at 324.7 A.

Cyanide: Distilled into sodium hydroxide, then treated with phenolphthalin which is converted to phenolphthalein by cyanide. The resulting color is determined spectrophotometrically.

Fluoride: Sample is treated with SPADNS solution in an Auto-Analyzer and fluoride determined colorimetrically.

Hardness: Calcium and magnesium are complexed with EDTA and the end-point determined with chrome black T. Sodium sulfide is used as in inhibitor

Iron: Iron is brought into solution with HC1, reduced to the ferrous state with hydroxylamine and treated with 1, 10-phenanthroline at pH 3.2-3.3. The resulting color is read in a spectrophotometer.

Lead: Sample is concentrated by evaporation and run by atomic absorption at 2833 A.

Magnesium: Calculated as the difference between the hardness and calcium content.

Manganese: Atomic absorption at 2795 A.

Mercury: Reduced to the elemental form by the action of stannous chloride and the vapor formed analyzed by flameless atomic absorption at 2536 A.

Nitrate and Nitrite: The sum of these is determined by an Auto-Analyzer. Nitrate is reduced to nitrite by copper and hydrazine sulfate. Reaction with sulfanilamide yields a diazo compound which couples with N-1-naphthylenediamine to form a dye, which is measured spectrophotometrically.

pH: Values were obtained electrometrically.

Silver: Atomic absorption at 3281

**Sodium:** Atomic absorption at 5890

Sulfate: Sulfate ion is precipitated in a hydrochloric acid medium with barium chloride. The absorbance of the resulting suspension of barium sulfate is measured in a spectrophotometer.

Total Solids: An aliquot is dried at 103 C in a platinum dish and weighed.

Zinc: Atomic absorption at 2139 A.

_	County and Community	Ashl		BARRON Rice Lake	BAYFIELD Bayfield	De Pere	Green Bay
	Source of Sample	Raw Water/ L. Superior	Distribution System	Ground Water/ Distribution System	Ground Water/ Distribution System	Ground Water/ Distribution System	Raw Water/ L. Michigan
_	Treatment	-	Purification Plant	None	None	None	-
Г	MBAS	<.1	<.1	<.1	<.1	<.1	<.1
	Ammonia(N)	_	-	-	_	_	.12
	Arsenic	<.02	<.02	<.02	<.02	<.02	<.02
	Barium	<.5	<.5	<.5	<.5	<.5	<.5
	Boron	<.2	<.2	<.2	<.2	<.2	<.2
	Cadmium	<.01	<.01	<.01	<.01	<.01	<.01
	Chromium	<.03	<.03	<.03	<.03	<.03	<.03
	Copper	<.03	<.03	<.05	<.03	•35	<.03
ļ	Cyanide	-	-	- ,	<b>-</b> .	<del>-</del> .	<b>-</b> .
	Lead	-	<.04	<.04	<.04	<.04	<.04
	Mercury	<.0002	<.0002	<.0002	<.0002	<.0002	<.0002
	Silver	<.04	<.04	<.04	<.04	<.04	<.04
- 1	Zinc	1.2	1.0	.86	•75	.01	<.01
	Alkalinity						
<b>⊣</b>	Tot.(CaCO3)	48	46	112	76	206	110
mg/1	Calcium	15	17	35	15	54 3.8	34
~	Chlorides	3	8	8	1	18	8
	Fluorides	.10	1.15	.20	.10	2.2	.20
	Hardness(Tot.) Iron	56	60	128	76	244 .26	.06
		.32	.22	.10	.12		
	Magnesium Manganese	4 <.04	5 <.04	10 .04	9 <.04	25 <.04	13 <.04
	Nitrite +	<b>∼.</b> 04	<b>\.</b> 04	.04	<b>\.</b> 04	<b>\.</b> 04	\.U4
	Nitrate-(N)	•3	.2	<.2	<.2	<.2	0.2
	Sodium	•3 2	.2 4	3	2		
	Sulfates	5	6	5	1	15 48	4.5
	Total		•	,		48	19
-	Solids	82	90	110	104	318	158
T	pH (Lab)	7.3	7.4	8.0	7.8	7.9	8.1
	pH (Field)	7.1	7.0	6.9	7.3		
2 1	P \						
"	Comments		Lead &	Galvanized	Galvanized	Copper	
″ <u> </u>			Lead & galvanized service	Galvanized & copper service	Galvanized service	Copper service line	
″ <u> </u>	Comments County and		galvanized service N - Cont.	& copper service BUFFALO	service BURNETT	service line	CLARK
" 	County and Community	Green Bay	galvanized service IN — Cont. Greenleaf	& copper service BUFFALO Fountain City	service  BURNETT  Grantsburg	service line CALUMET New Holstein	Neillsville
" <u>-</u>	Comments County and		galvanized service N - Cont. Greenleaf Ground Water Distribution	& copper service  BUFFALO Fountain City  / Ground Water, Distribution	BURNETT Grantsburg  Ground Water Distribution	service line  CALUMET New Holstein  Ground Water Distribution	Neillsville / Raw Water/
-	County and Community Source of	Green Bay Finished	galvanized service  N - Cont. Greenleaf Ground Water Distribution System	& copper service  BUFFALO Fountain City  / Ground Water, Distribution System	BURNETT Grantsburg  Ground Water Distribution System	service line  CALUMET New Holstein  Ground Water Distribution System	Neillsville / Raw Water/
, 1 - -	County and Community Source of Sample	Green Bay Finished Water	galvanized service  N — Cont. Greenleaf Ground Water Distribution System	& copper service  BUFFALO Fountain City  / Ground Water, Distribution	BURNETT Grantsburg  Ground Water Distribution	service line  CALUMET New Holstein  Ground Water Distribution	Neillsville / Raw Water/
-	County and Community Source of Sample Treatment	Green Bay Finished Water Purification Plant	galvanized service  N — Cont. Greenleaf Ground Water Distribution System None	& copper service  BUFFALO Fountain City  / Ground Water, Distribution System  None	BURNETT Grantsburg  Ground Water Distribution System None	service line  CALUMET New Holstein  Ground Water Distribution System None	Neillsville / Raw Water/ Black River
-	County and Community Source of Sample Treatment MBAS	Green Bay Finished Water Purification Plant <.1	galvanized service //N - Cont. Greenleaf Ground Water Distribution System None	& copper service  BUFFALO Fountain City  / Ground Water, Distribution System None  <.1	BURNETT Grantsburg  Ground Water Distribution System None	service line  CALUMET New Holstein  Ground Water Distribution System None  <.1	Neillsville / Raw Water/ Black River
- -	County and Community Source of Sample Treatment	Green Bay Finished Water Purification Plant <.1 .07	galvanized service N - Cont. Greenleaf Ground Water Distribution System None <-1 .08	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1	BURNETT Grantsburg  Ground Water Distribution System None	CALUMET New Holstein  Ground Water Distribution System None	Neillsville / Raw Water/ Black River <.1 .06
-	County and Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic	Green Bay Finished Water  Purification Plant <.1 .07 <.02	galvanized service  N - Cont. Greenleaf Ground Water. Distribution System None  <.1 .08 <.02	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 - <.02	BURNETT Grantsburg  / Ground Water Distribution System None  <.1 - <.02	CALUMET New Holstein Ground Water Distribution System None  <.1 - <.02	Neillsville / Raw Water/ Black River  <.1 .06 <.02
-	County and Community Source of Sample Treatment MBAS Ammonia(N)	Green Bay Finished Water  Purification Plant <.1 .07 <.02 <.5	galvanized service  N - Cont. Greenleaf Ground Water Distribution System None  <.1 .08 <.02 <.5	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 - <.02 <.5	BURNETT Grantsburg  / Ground Water Distribution System None  <.1 - <.02 <.5	CALUMET New Holstein  Ground Water Distribution System None  <.1 - <.02 <.5	Neillsville / Raw Water/ Black River  <.1 .06 <.02 <.5
-	County and Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium	Green Bay Finished Water  Purification Plant <.1 .07 <.02	galvanized service  N - Cont. Greenleaf Ground Water Distribution System None  <.1 .08 <.02 <.5 <1.0	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 <.02 <.5 <.2	BURNETT Grantsburg  / Ground Water Distribution System None  <.1 - <.02 <.5 <.2	Service line  CALUMET New Holstein  / Ground Water Distribution System None  <.1 <.02 <.5 <.2	Neillsville  / Raw Water/ Black River  <.1 .06 <.02 <.5 <.2
-	County and Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron	Green Bay Finished Water  Purification Plant <.1 .07 <.02 <.5 <.2	galvanized service  N - Cont. Greenleaf  Ground Water Distribution System None  <.1 .08 <.02 <.5 <1.0 <.01	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 <.02 <.5 <.2 <.01	BURNETT Grantsburg  Ground Water Distribution System None  <.1 - <.02 <.5 <.2 <.01	service line  CALUMET New Holstein  / Ground Water Distribution System None  <.1 - <.02 <.5 <.2 <.01	Neillsville
	County and Community Source of Sample Treatment MBAS Ammonia(N) Arsenic Barium Boron Cadmium	Green Bay Finished Water  Purification Plant <.1 .07 <.02 <.5 <.2 <.01	galvanized service  N - Cont. Greenleaf Ground Water Distribution System None  <.1 .08 <.02 <.5 <1.0	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 <.02 <.5 <.2 <.01 <.03	BURNETT Grantsburg  Ground Water Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03	Service line  CALUMET New Holstein  / Ground Water Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03	Neillsville
	County and Community Source of Sample Treatment MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium	Green Bay Finished Water  Purification Plant <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03	galvanized service  N - Cont. Greenleaf Ground Water Distribution System None  <.1 .08 <.02 <.5 <1.0 <.01 <.03 .05 -	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 <.02 <.5 <.2 <.01 <.03 <.02	BURNETT Grantsburg  Ground Water Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 <.03	service line  CALUMET New Holstein  / Ground Water Distribution System None  <.1 - <.02 <.5 <.2 <.01	Neillsville   Raw Water   Black River
	County and Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper	Green Bay Finished Water  Purification Plant <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03 - <.04	galvanized service  N - Cont. Greenleaf Ground Water Distribution System None  <-1 .08 <02 <5 <1.0 <01 <03 .05	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1	BURNETT Grantsburg  Ground Water Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03	Service line  CALUMET New Holstein  / Ground Water Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 <.02	Neillsville
	County and Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide	Green Bay Finished Water  Purification Plant <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002	galvanized service  N - Cont. Greenleaf Ground Water Distribution System None  <.1 .08 <.02 <.5 <1.0 <.01 <.03 .05 - <.04 <.0002	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 <.02 <.5 <.2 <.01 <.03 <.02	BURNETT Grantsburg  / Ground Water Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 <.03	service line  CALUMET New Holstein  / Ground Water Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 <.02	Neillsville   Raw Water   Black River
	County and Community Source of Sample Treatment MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver	Green Bay Finished Water  Purification Plant <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04	galvanized service   N - Cont.	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1	BURNETT Grantsburg  / Ground Water Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 - <.04	service line  CALUMET New Holstein  / Ground Water Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 <.02 - <.05	Neillsville   Raw Water   Black River
	County and Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc	Green Bay Finished Water  Purification Plant <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002	galvanized service  N - Cont. Greenleaf Ground Water Distribution System None  <.1 .08 <.02 <.5 <1.0 <.01 <.03 .05 - <.04 <.0002	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 <.02 <.5 <.2 <.01 <.03 <.02 - <.05 <.05 <.05 <.0002	BURNETT Grantsburg  Ground Water Distribution System None  <.1 <.02 <.5 <.2 <.01 <.03 <.03 <.03 <.04 <.0002	### CALUMET New Holstein  ### CALUMET New Holstein  ### Ground Water Distribution    System None    Colument None	Neillsville   Raw Water   Black River
	County and Community Source of Sample  Treatment  MRAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity	Green Bay Finished Water  Purification Plant <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 <.001	galvanized service  N - Cont. Greenleaf Ground Water, Distribution System None  <.1 .08 <.02 <.5 <1.0 <.01 <.03 .05 - <.04 <.0002 <.04 .03	& copper service    BUFFALO   Fountain City	BURNETT Grantsburg  / Ground Water Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 <.0002 <.04 .6	CALUMET   New Holstein   / Ground Water   Distribution   System   None     -	Neillsville
	County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> )	Green Bay Finished Water  Purification Plant <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 <.01 104	galvanized service  N - Cont.  Greenleaf  Ground Water Distribution System None  <.1 .08 <.02 <.5 <1.0 <.01 <.03 .05 - <.04 <.0002 <.04 .03 .05 - <.04 .0002 <.04 .03	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 - (.02 (.5 (.2 (.01 (.03 (.02 (.04 (.05 (.05 (.002 (.04 (.05 (.05 (.05 (.05 (.05 (.05 (.05 (.05	### BURNETT Grantsburg    Ground Water Distribution System None	### CALUMET New Holstein  ### CALUMET New Holstein  ### Ground Water Distribution System None    Colument None	Neillsville   Raw Water   Black River
	County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium	Green Bay Finished Water  Purification Plant  <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 <.01  104 34	galvanized service   N - Cont. Greenleaf     Ground Water Distribution     System     None	& copper service    BUFFALO   Fountain City	BURNETT Grantsburg  / Ground Water Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 <.0002 <.04 .6	### CALUMET New Holstein  ### CALUMET New Holstein  ### Ground Water Distribution    System   None    Colument	Neillsville   Raw Water   Black River
	County and Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides	Green Bay Finished Water  Purification Plant <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03 <.04 <.0002 <.04 <.01  104 34 8.5	galvanized service   N - Cont. Greenleaf     Ground Water Distribution System None	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 - (.02 (.5 (.2 (.01 (.03 (.02 (.04 (.05 (.05 (.002 (.04 (.05 (.05 (.05 (.05 (.05 (.05 (.05 (.05	### BURNETT Grantsburg    Ground Water Distribution System None	CALUMET   New Holstein	Neillsville   Raw Water   Black River
	County and Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides	Green Bay Finished Water  Purification Plant <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03 <.04 <.0002 <.04 <.01  104 34 8.5 1.15	galvanized service  N - Cont.  Greenleaf  Ground Water, Distribution System  None  <.1 .08 <.02 <.5 <1.0 <.01 <.03 .05 - <.04 <.0002 <.04 .03 262 105 6 .95	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 <.02 <.5 <.2 <.01 <.03 <.02 <.05 <.002 <.04 .05 <.0002 <.04 .05 <.0002 <.04 .05 <.05 <.01 <.05 <.0001 <.00 <.00 <.00 <.00 <.00 <.00 <.	### Service    BURNETT Grantsburg	### CALUMET New Holstein    Ground Water Distribution System None	Neillsville
	County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Hardness(Tot.)	Green Bay Finished Water  Purification Plant <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 <.001  104 34 8.5 1.15 132	galvanized service  N - Cont.  Greenleaf  Ground Water, Distribution System  None  <.1 .08 <.02 <.5 <1.0 <.01 <.03 .05 - <.04 <.00002 <.04 .03 262 105 6 .95 470	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 <.02 <.5 <.2 <.01 <.03 <.02 <.05 <.0002 <.0405  258 60 115 268	### BURNETT Grantsburg  ### Ground Water Distribution System None    Column	### CALUMET New Holstein  ### CALUMET New Holstein  ### Ground Water Distribution System None    Column None	Neillsville
	County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Hardness(Tot.) Iron	Green Bay Finished Water  Purification Plant  <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 <.001  104 34 8.5 1.15 132 <.04	galvanized service  N - Cont.  Greenleaf  Ground Water, Distribution System None  <.1 .08 <.02 <.5 <1.0 <.01 <.03 .05 - <.04 <.00002 <.04 .03 262 105 6 .95 470 .4	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 -	### Service    BURNETT Grantsburg	CALUMET   New Holstein   / Ground Water   Distribution   System   None   / 1   -   < .02   < .5   < .2   < .01   < .03   < .02   -   < .05   < .0002   < .04	Neillsville   Raw Water   Black River
	County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Fluorides Hardness(Tot.) Iron Magnesium	Green Bay Finished Water  Purification Plant  <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 <.01  104 34 8.5 1.15 132 <.04 12	galvanized service  N - Cont.  Greenleaf  Ground Water Distribution System None  <.108 <.02 <.5 <1.0 <.01 <.0305 - <.04 <.0002 <.0403 262 105 695 4704 50	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 - (.02 (.5 (.2 (.01 (.03 (.02 (.04 (.05 (.05 (.0002 (.04 (.05 (.05 (.05 (.05 (.05 (.05 (.05 (.05	### SERVICE    BURNETT Grantsburg	CALUMET   New Holstein   / Ground Water   Distribution   System   None     -	Neillsville   Raw Water   Black River
	County and Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Hardness(Tot.) Iron Magnesium Manganese	Green Bay Finished Water  Purification Plant  <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 <.001  104 34 8.5 1.15 132 <.04	galvanized service  N - Cont.  Greenleaf  Ground Water, Distribution System None  <.1 .08 <.02 <.5 <1.0 <.01 <.03 .05 - <.04 <.00002 <.04 .03 262 105 6 .95 470 .4	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 -	### Service    BURNETT Grantsburg	CALUMET   New Holstein   / Ground Water   Distribution   System   None   / 1   -   < .02   < .5   < .2   < .01   < .03   < .02   -   < .05   < .0002   < .04	Neillsville   Raw Water   Black River
	County and Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Hardness(Tot.) Iron Magnesium Manganese Nitrite +	Green Bay Finished Water  Purification Plant  <.1 .07 <.02 <.5 <.2 <.01 <.03 <.0304 <.0002 <.04 <.01  104 34 8.5 1.15 132 <.04 12 <.04	galvanized service  N - Cont.  Greenleaf  Ground Water Distribution System  None  <-1 .08 <-02 <-5 <1.0 <-01 <-03 .05 <-04 <-0002 <-04 .03 262 105 6 .95 470 .4 50 <-04	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 <.02 <.5 <.2 <.01 <.03 <.02 <.05 <.0002 <.04    .05  <.00002 <.04    .05  258    60    1    1.15 268    .44    29    <.04	### BURNETT Grantsburg  ### Ground Water Distribution System None    Column	CALUMET   New Holstein	Neillsville   Raw Water   Black River
	County and Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Hardness(Tot.) Iron Magnesium Manganese Nitrite + Nitrate-(N)	Green Bay Finished Water  Purification Plant <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 <.01  104 34 8.5 1.15 132 <.04 12 <.04 <.2	galvanized service  N - Cont.  Greenleaf  Ground Water, Distribution System  None  <.1 .08 <.02 <.5 <1.0 <.01 <.03 .05 - <.04 <.00002 <.04 .03 262 105 6 .95 470 .4 50 <.04 0.3	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 <.02 <.5 <.2 <.01 <.03 <.02 <.05 <.0002 <.04 <.05 <.00002 <.04    .05 <.0004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.	BURNETT Grantsburg  / Ground Water Distribution System  None  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.00002 <.04 .6  180 42 11 1.30 156 .26 12 .22 <.16	CALUMET   New Holstein   / Ground Water   Distribution   System   None	Neillsville   Raw Water   Black River
	County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Hardness(Tot.) Iron Magnesium Manganese Nitrite + Nitrate-(N) Sodium	Green Bay Finished Water  Purification Plant  <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 <.001  104 34 8.5 1.15 132 <.04 12 <.04 <.2 5	galvanized service   N - Cont. Greenleaf Ground Water, Distribution System None	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1	### BURNETT Grantsburg    Ground Water Distribution System   None	CALUMET   New Holstein   / Ground Water   Distribution   System   None     -	Neillsville   Raw Water   Black River
	County and Community Source of Sample  Treatment  MRAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Hardness(Tot.) Iron Magnesium Manganese Nitrite + Nitrate-(N) Sodium Sulfates	Green Bay Finished Water  Purification Plant <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 <.01  104 34 8.5 1.15 132 <.04 12 <.04 <.2	galvanized service  N - Cont.  Greenleaf  Ground Water, Distribution System  None  <.1 .08 <.02 <.5 <1.0 <.01 <.03 .05 - <.04 <.00002 <.04 .03 262 105 6 .95 470 .4 50 <.04 0.3	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 <.02 <.5 <.2 <.01 <.03 <.02 <.05 <.0002 <.04 <.05 <.00002 <.04    .05 <.0004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.05 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.00004 <.	BURNETT Grantsburg  / Ground Water Distribution System  None  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.00002 <.04 .6  180 42 11 1.30 156 .26 12 .22 <.16	CALUMET   New Holstein   / Ground Water   Distribution   System   None	Neillsville
	County and Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Hardness(Tot.) Iron Magnesium Manganese Nitrite + Nitrate-(N) Sodium Sulfates Total	Green Bay Finished Water  Purification Plant  <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 <.01  104 34 8.5 1.15 132 <.04 12 <.04 <.2 5 22	galvanized service  N - Cont.  Greenleaf  Ground Water Distribution System None  <.108 <.02 <.5 <1.0 <.01 <.0305 - <.04 <.0002 <.0403 262 105 695 4704 50 <.04 0.3 18.5 260	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 <.02 <.5 <.2 <.01 <.03 <.02 <.05 <.0002 <.04 .05  258 60 1 .15 268 .44 29 <.04 <.08 2 16	### BURNETT Grantsburg    Ground Water Distribution System None	CALUMET   New Holstein   / Ground Water   Distribution   System   None     -	Neillsville   Raw Water   Black River
	County and Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Hardness(Tot.) Iron Magnesium Manganese Nitrite + Nitrate-(N) Sodium Sulfates Total Solids	Green Bay Finished Water  Purification Plant <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 <.01  104 34 8.5 1.15 132 <.04 12 <.04 <.2 5 22 160	galvanized service  N - Cont.  Greenleaf  Ground Water Distribution System  None  <.1 .08 <.02 <.5 <1.0 <.01 <.03 .05 - <.04 <.0002 <.04 .03 262 105 6 .95 470 .4 50 <.04  0.3 18.5 260 680	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 <.02 <.5 <.2 <.01 <.03 <.02 <.05 <.0002 <.04 <.05 <.0002 <.04 <.05 <.0004 <.05 <.00002 <.04 <.05 <.00002 <.04 <.05 <.00002 <.04 <.05 <.00002 <.04 <.05 <.00002 <.04 <.05 <.00002 <.05 <.00002 <.004 <.05 <.00002 <.004 <.05 <.00002 <.004 <.05 <.00002 <.004 <.05 <.00002 <.004 <.005 <.00002 <.004 <.000 <.00002 <.000002 <.0000000 <.0000000000	### BURNETT Grantsburg    Ground Water Distribution System None	CALUMET   New Holstein	Neillsville
	County and Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Hardness(Tot.) Iron Magnesium Manganese Nitrite + Nitrate-(N) Sodium Sulfates Total Solids pH (Lab)	Green Bay Finished Water  Purification Plant  <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 <.01  104 34 8.5 1.15 132 <.04 12 <.04 <.2 5 22	galvanized service  N - Cont.  Greenleaf  Ground Water Distribution System None  <.108 <.02 <.5 <1.0 <.01 <.0305 - <.04 <.0002 <.0403 262 105 695 4704 50 <.04 0.3 18.5 260	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 <.02 <.5 <.2 <.01 <.03 <.02 <.05 <.0002 <.04 .05  258 60 1 .15 268 .44 29 <.04 <.08 2 16	BURNETT Grantsburg  / Ground Water Distribution System  None  <.1 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.00002 <.04 .6  180 42 11 1.30 156 .26 12 .22 <.16 17 1 226 7.7	CALUMET   New Holstein   / Ground Water   Distribution   System   None	Neillsville   Raw Water   Black River
	County and Community Source of Sample Treatment  MRAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Hardness(Tot.) Iron Magnesium Manganese Nitrite + Nitrate-(N) Sodium Sulfates Total Solids pH (Lab) pH (Field)	Green Bay Finished Water  Purification Plant <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 <.01  104 34 8.5 1.15 132 <.04 12 <.04 <.2 5 22 160 8.2	galvanized service  N - Cont.  Greenleaf  Ground Water, Distribution System  None  <.1 .08 <.02 <.5 <1.0 <.01 <.03 .05 - <.04 <.0002 <.04 .03 262 105 6 .95 470 .4 50 <.04 0.3 18.5 260 680 7.8 -	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 <.02 <.5 <.2 <.01 <.03 <.02 <.05 <.0002 <.04 <.05 <.0002 <.04 <.05 <.0004 <.05 <.0004 <.05 <.0004 <.05 <.0004 <.05 <.0004 <.05 <.00002 <.004 <.05 <.00002 <.004 <.005 <.00002 <.004 <.005 <.00002 <.004 <.005 <.00002 <.004 <.005 <.00002 <.004 <.005 <.00002 <.004 <.005 <.00002 <.004 <.005 <.00002 <.004 <.008 <0.00002 <.004 <0.00002 <0.00002 <0.00002 <0.000002 <0.000002 <0.000002 <0.000002 <0.000002 <0.0000000000	### BURNETT Grantsburg    Ground Water Distribution System None	### CALUMET New Holstein    Ground Water Distribution System None	Neillsville   Raw Water   Black River
	County and Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Hardness(Tot.) Iron Magnesium Manganese Nitrite + Nitrate-(N) Sodium Sulfates Total Solids pH (Lab)	Green Bay Finished Water  Purification Plant <.1 .07 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 <.01  104 34 8.5 1.15 132 <.04 12 <.04 <.2 5 22 160 8.2	galvanized service  N - Cont.  Greenleaf  Ground Water Distribution System  None  <.1 .08 <.02 <.5 <1.0 <.01 <.03 .05 - <.04 <.0002 <.04 .03 262 105 6 .95 470 .4 50 <.04  0.3 18.5 260 680 7.8	& copper service  BUFFALO Fountain City / Ground Water, Distribution System None  <.1 <.02 <.5 <.2 <.01 <.03 <.02 <.05 <.0002 <.04 <.05 <.0002 <.04 <.05 <.0004 <.05 <.00002 <.04 <.05 <.00002 <.04 <.05 <.00002 <.04 <.05 <.00002 <.04 <.05 <.00002 <.04 <.05 <.00002 <.05 <.00002 <.004 <.05 <.00002 <.004 <.05 <.00002 <.004 <.05 <.00002 <.004 <.05 <.00002 <.004 <.005 <.00002 <.004 <.000 <.00002 <.000002 <.0000000 <.0000000000	BURNETT Grantsburg  / Ground Water Distribution System  None  <.1 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.00002 <.04 .6  180 42 11 1.30 156 .26 12 .22 <.16 17 1 226 7.7	CALUMET   New Holstein   / Ground Water   Distribution   System   None	Neillsville   Raw Water   Black River

	County and Community	CL Neillsville	ARK Owen	COLUMBIA Portage	CRAWFORD, Prairie du Chien	DANE Madison	
	Source of	Distribution	Ground Water/	Ground Water/	Ground Water/	Ground Water/	
	Sample	System	Distribution	Distribution	Distribution	Distribution	
			System	System	System	System	
	Treatment	Purification Plant	None	Lime Softening	None	None	
1	MBAS	<.1	<.1	<.1	<.1	-	
	Ammonia(N)	-	-	-	-	-	
	Arsenic	<.02	<.02	<.02	<.02	<.02	
	Barium	<.5	<.5	<.5	<.5	<.5	
	Boron	<.2	<.2	<.2	<.2	<.2	
	Cadmium	<.01	<.01	<.01	<.01	<.01	
	Chromium	<.03	<.03	<.03	<.03	<.03	
	Copper	<.02	.03	<.03	<.02	<.03	
	Cyanide	-	-	-	-	<b>-</b> .	
	Lead	<.05	<.05	<.05	<.05	<.04	
3	Mercury	<.0002	<.0002	<.0002	<.0002	<.0002	
2	Silver	<.04	<.04	<.04	<.04	<.04	
1	Zinc	.05	.02	<.01	0.01	<.01	
	Alkalinity				_		
	$Tot.(CaCO_3)$	58	98	60	258	172	
mg/l	Calcium	30	29	20	67	55	
į	Chlorides	12	9	11	6	0	
	Fluorides	1.15	.25	1.0	.20	1.3	
5	${\tt Hardness}({\tt Tot.})$	100	124	92	284	276	
	Iron	.18	.14	<.04	0.12	.04	
	Magnesium	6	12	10	28	34	
	Manganese	<.04	<.04	<.04	<.04	.04	
	Nitrite +				_		
	$Nitrate_{-}(N)$	.8	.72	0.9	.28	•3	
	Sodium	9.5	8.5	9.0	3.5	20	
	Sulfates	40	22	24	20	45	
	Total						
ا	Solids	162	190	124	320	266	
su	pH (Lab)	8.4	7.6	9.6	7.7	8.5	
۳_	pH (Field)	Copper and	Copper		Galvanized	Connor	
	Comments	copper and cast iron service	service		service	Copper service line	

	ounty and ommunity	DODGE Beaver Dam	DOOR Sturgeon Bay	DOU( Supe		EAU CI Eau C	
	ource of Sample	Ground Water/ Distribution System	Ground Water/ Distribution System	Raw Water/ L. Superior	Distribution System (Well Water)	Raw Water/ (Wells No. 2, 11, 13, 14)	Ground Water/ Distribution System
Tr	reatment	Lime Softening	None	-	Purification Plant	-	Iron & Manganese Removal
	BAS	<.1	<.1	<.1	<.1	<.1	<.1
	mmonia(N)	-	.03	-	_	-	_
	rsenic	<.02	<.02	<.02	<.02	<.02	<.02
	arium	<.5	<.5	<.5	<.5	<.5	<.5
Bo	oron	<.2	<.2	<.2	<.2	<.2	<.2
Ca	admium	<.01	<.01	<.01	<.01	<.01	<.01
Ch	hromium	<.03	<.03	<.03	<.03	<.03	<.03
Co	opper	<.03	.07	<.03	.2	<.02	.04
Cy	yanide	-	-	-	<.01	_	-
Le	ead	<.05	<.04	<.04	.06	<.05	<.05
හු Me	ercury	<.0002	<.0002	<.0002	<.0002	<.0002	<.0002
S   Si	ilver	<.04	<.04	<.04	<.04	<.04	<.04
G Zi	inc	<.01	.03	.84	0.8	.03	<.01
ANALYSES ANALYSES ANALYSES AI	lkalinity					_	
~ . l T	Tot.(CaCO3)	84	264	42	44	52	54
₹5  Ca	alcium	18	66	13	13	15	18
CHEMICAL mg/l Ha	hlorides	2	14	2.5	3	Ĺ,	7
É F1	luorides	1.4	1.20	.10	.10	.20	1.3
E He	ardness(Tot.)	108	300	48	48	72	72
	ron	.82	0.2	0.14	0.54	1.0	.1
1 -	agnesium	15	33	4	4	8	7
	anganese	<.04	<.04	<.04	< .04	.9	.04
	itrite +					• • •	•04
	Nitrate-(N)	<.2	2.5	0.2	0.2	1.0	1.2
	odium	4.5	6	1.5	1.5	2.5	
	ulfates	25	23	4	3	7	3 6
	otal				5	į.	•
	Solids	126	338	52	66	114	116
	H (Lab)	9.5	8.0	7.5	7.1	7.5	7.7
[ N	H (Field)	-	-	7.1	7.0	12	-
	omments		Tot. Org.	Color -	Color - 5		Copper
	Omno II OD		N13	10	Lead & cop. service		service line

CHEMICAL ANALYSES

	County and Community	FLORENCE Florence	FQND DU LAC Fond du Lac	FOREST Laona	GREEN Monroe	GREEN LAKE Berlin	IRON Hurley
	Source of Sample	Ground Water/ Distribution System	Ground Water/ Main Station	Ground Water/ Distribution System	Ground Water/ Distribution System	Ground Water/ Distribution System	Raw Water/ L. Lavina
	Treatment	None	None	None	None	None	_
	MBAS (72)	<.1	<.1	<.1	.1	<.1 _	<.1
	Ammonia(N) Arsenic	- <.02	- <.02	- <.02	- <.01	<.02	- <.02
	Barium	<.5	<.5	<.5	<.5	<.5	<.5
	Boron	<.2	<.2	<.2	<.1	<.2	<.2
	Cadmium	<.01	<.01	<.01	<.01	<.01	<.01
	Chromium	<.03	<.03	<.03	<.03	<.03	<.03
	Copper	.08	<.03	<.03	.02	<.03	<.03
	Cyanide		- 01:	-	-	- <.04	<.04
	Lead	<.04 <.0002	<.04 <.0002	<.05 <.0002	<.05 <.0002	<.0002	<.0002
SE	Mercury Silver	<.0002 <.04	<.04	<.04	<.04	<.04	<.04
CHEMICAL ANALYSES mg/l	Zinc	0.2	.05	.18	.05	-	.6
NAI	Alkalinity		,	.10			
A	Tot.(CaCO3)	150	194	110	272	246	18
IICAL mg/l	Calcium	35	87	27	50	52	12
A B	Chlorides	3	70	2 _	1	7.5	14
圉	Fluorides	.15 168	.75 376	.5 112	1.3 276	1.1 256	.30 48
೮	Hardness(Tot.) Iron	<.04	.26	.08	.04	<.04	1.64
	Magnesium	20	39	11	37	31	4
	Manganese	<.04	<.04	.35	<.03	.06	0.1
	Nitrite +						
	Nitrate-(N)	.2	<.2	.44	.16	<.2	<.2
	Sodium	3	37	4.2	2.6	7	2
	Sulfates	22	190	6	18	23	17
	Total Solids	180	606	140	284	284	104
	TpH (Lab)	8.3	7.7	7.8	7.8	7.9	6.3
ns	pH (Field)	7.8	-	7.2		_	_
	Comments	Galvanized service line	Galvinized & copper service line	Asbestos-cement mains copper service	Cast iron service	Copper Serv. line - galv. plumbing	Color-100 Samp. downstream of chlorine & ammonia
			Bervies 11ms	Bel VIcc			addition, aeration
	County and Community	IRON Hurley	IOWA Dodgeville	JACKSON Black R. Falls	JEFFERSON Johnson Creek	JUNEAU New Lisbon	KENOSHA Kenosha
	Community Source of	Hurley Distribution	Dodgeville Ground Water/	Black R. Falls Ground Water/	Johnson Creek Ground Water/	New Lisbon Ground Water/	Kenosha Raw Water/
	Community Source of Sample	Hurley Distribution System	Dodgeville	Black R. Falls	Johnson Creek	New Lisbon	Kenosha
	Community Source of	Hurley Distribution System Purification	Dodgeville Ground Water/ Distribution	Black R. Falls Ground Water/ Distribution	Johnson Creek Ground Water/ Distribution	New Lisbon Ground Water/ Distribution	Kenosha Raw Water/
	Community Source of Sample Treatment	Hurley Distribution System Purification Plant	Dodgeville Ground Water/ Distribution System None	Black R. Falls Ground Water/ Distribution System None	Johnson Creek Ground Water/ Distribution System None	New Lisbon Ground Water/ Distribution System None	Kenosha Raw Water/ L. Michigan
· · · · · · · · · · · · · · · · · · ·	Community Source of Sample Treatment	Hurley Distribution System Purification	Dodgeville Ground Water/ Distribution System	Black R. Falls Ground Water/ Distribution System	Johnson Creek Ground Water/ Distribution System	New Lisbon Ground Water/ Distribution System	Kenosha Raw Water/ L. Michigan
	Community Source of Sample Treatment	Hurley Distribution System Purification Plant .1 - <.02	Dodgeville Ground Water/ Distribution System None  <.1 - <.02	Black R. Falls Ground Water/ Distribution System None  <.1 - <.02	Johnson Creek Ground Water/ Distribution System None  <.1 - <.02	New Lisbon Ground Water/ Distribution System None	Kenosha Raw Water/ L. Michigan - <.1
	Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium	Hurley Distribution System  Purification Plant .1 <.02 <.5	Dodgeville Ground Water/ Distribution System None  <.1 - <.02 <.5	Black R. Falls Ground Water/ Distribution System None  <.1 - <.02 <.5	Johnson Creek Ground Water/ Distribution System None  <.1 <.02 .5	New Lisbon Ground Water/ Distribution System None  .1 - <.02 <.5	Kenosha Raw Water/ L. Michigan   <.1 <.02 <.5
	Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron	Hurley Distribution System  Purification Plant .1 - <.02 <.5 <.2	Dodgeville Ground Water/ Distribution System None  <.1 <.02 <.5 <.2	Black R. Falls  Ground Water/ Distribution System None  <.1 <.02 <.5 <.2	Johnson Creek Ground Water/ Distribution System None  <.1 - <.02 .5 <.2	New Lisbon Ground Water/ Distribution System None .1 - <.02 <.5 <.2	Kenosha Raw Water/ L. Michigan
	Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium	Hurley Distribution System  Purification Plant .1 - <.02 <.5 <.2 <.01	Dodgeville  Ground Water/ Distribution System None  <.1 - <.02 <.5 <.2 <.01	Black R. Falls  Ground Water/ Distribution System None  <.1 - <.02 <.5 <.2 <.01	Johnson Creek  Ground Water/ Distribution System None  <.1 - <.02 .5 <.2 <.01	New Lisbon Ground Water/ Distribution System None  .1 - <.02 <.5 <.2 <.01	Kenosha  Raw Water/ L. Michigan
,	Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium	Hurley Distribution System  Purification Plant .1 - <.02 <.5 <.2 <.01 <.03	Dodgeville  Ground Water/ Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03	Black R. Falls  Ground Water/ Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03	Johnson Creek  Ground Water/ Distribution System None  <.1 - <.02 .5 <.2 <.01 <.03	New Lisbon Ground Water/ Distribution System None  .1 - <.02 <.5 <.2 <.01 <.03	Kenosha  Raw Water/ L. Michigan
	Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium	Hurley Distribution System  Purification Plant .1	Dodgeville Ground Water/ Distribution System None  <.1 <.02 <.5 <.2 <.01 <.03 <.02 -	Black R. Falls Ground Water/ Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 .03	Johnson Creek Ground Water/ Distribution System None  <.1 - <.02 .5 <.2 <.01 <.03 .04	New Lisbon Ground Water/ Distribution System None  .1 - <.02 <.5 <.2 <.01	Kenosha  Raw Water/ L. Michigan
	Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead	Hurley Distribution System  Purification Plant .1	Dodgeville	Black R. Falls  Ground Water/ Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 .03 - <.05	Johnson Creek Ground Water/ Distribution System None  <.1 - <.02 .5 <.2 <.01 <.03 .04 - <.04	New Lisbon Ground Water/ Distribution System None  .1 - <.02 <.5 <.2 <.01 <.03 1.0 - <.05	Kenosha  Raw Water/ L. Michigan   <.1 <.02 <.5 .2 <.01 <.03 .06 <.04
ES	Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury	Hurley Distribution System  Purification Plant .1 - <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002	Dodgeville	Black R. Falls  Ground Water/ Distribution System  None  <.1 <.02 <.5 <.2 <.01 <.03 .03 <.05 <.0002	Johnson Creek  Ground Water/ Distribution System  None  <.1 <.02 .5 <.2 <.01 <.03 .04 <.04 <.0002	New Lisbon  Ground Water/ Distribution System  None  .1 <.02 <.5 <.2 <.01 <.03 1.0 <.05 <.0002	Kenosha  Raw Water/ L. Michigan
YSES	Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver	Hurley  Distribution System  Purification Plant  .1 - <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04	Dodgeville	Black R. Falls  Ground Water/ Distribution System  None  <.1 - <.02 <.5 <.2 <.01 <.03 .03 - <.05 <.0002 <.04	Johnson Creek  Ground Water/ Distribution System  None  <.1 - <.02 .5 <.2 <.01 <.03 .04 - <.04 <.0002 <.04	New Lisbon  Ground Water/ Distribution System  None  .1 <.02 <.5 <.2 <.01 <.03 1.0 <.05 <.0002 <.05 <.0002 <.04	Kenosha  Raw Water/ L. Michigan
ALYSES	Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc	Hurley Distribution System  Purification Plant .1 - <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002	Dodgeville	Black R. Falls  Ground Water/ Distribution System  None  <.1 <.02 <.5 <.2 <.01 <.03 .03 <.05 <.0002	Johnson Creek  Ground Water/ Distribution System  None  <.1 <.02 .5 <.2 <.01 <.03 .04 <.04 <.0002	New Lisbon  Ground Water/ Distribution System  None  .1 <.02 <.5 <.2 <.01 <.03 1.0 <.05 <.0002	Kenosha  Raw Water/ L. Michigan
ANALYSES	Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity	Hurley Distribution System  Purification Plant .1	Dodgeville	Black R. Falls  Ground Water/ Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 .03 - <.05 <.0002 <.04 .01 .01	Johnson Creek  Ground Water/ Distribution System None  <.1	New Lisbon  Ground Water/ Distribution System None  .1 - <.02 <.5 <.2 <.01 <.03 1.0 - <.05 <.0002 <.04 <.01	Kenosha  Raw Water/ L. Michigan
AL ANALYSES	Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc	Hurley  Distribution System  Purification Plant  .1 - <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04	Dodgeville	Black R. Falls  Ground Water/ Distribution System  None  <.1 - <.02 <.5 <.2 <.01 <.03 .03 - <.05 <.0002 <.04	Johnson Creek  Ground Water/ Distribution System  None  <.1 - <.02 .5 <.2 <.01 <.03 .04 - <.04 <.0002 <.04	New Lisbon  Ground Water/ Distribution System  None  .1 <.02 <.5 <.2 <.01 <.03 1.0 <.05 <.0002 <.05 <.0002 <.04	Kenosha  Raw Water/ L. Michigan
MICAL ANALYSES mg/l	Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO3)	Hurley  Distribution System  Purification Plant  .1  -	Dodgeville	Black R. Falls  Ground Water/ Distribution System  None  <.1 <.02 <.5 <.2 <.01 <.03 .03 <.05 <.0002 <.04 .01  98 13 10	Johnson Creek  Ground Water/ Distribution System  None  <.1 <.02 .5 <.2 <.01 <.03 .04 <.04 <.0002 <.04 .09  282 60 12	New Lisbon  Ground Water/ Distribution System  None  .1 - <.02 <.5 <.2 <.01 <.03 1.0 - <.05 <.0002 <.04 <.01 106	Kenosha  Raw Water/ L. Michigan   <.1 <.02 <.5 .2 <.01 <.03 .06 <.04 <.0002 <.04 .16  110
HEMICAL ANALYSES mg/l	Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides	Hurley Distribution System  Purification Plant .1 - <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 1.4 8 22 14 .2	Dodgeville	Black R. Falls  Ground Water/ Distribution System None  <.1 - <.02 <.5 <.02 <.01 <.03 .03 - <.05 <.00002 <.04 .01  98 13 10 1.2	Johnson Creek  Ground Water/ Distribution System None  <.1 <.02 .5 <.2 <.01 <.03 .04 <.04 - <.0002 <.04 .09  282 60 12 1.3	New Lisbon  Ground Water/ Distribution System  None  -1 - <.02 <.5 <.2 <.01 <.03 1.0 - <.05 <.0002 <.04 <.01 106 34 0 .2	Kenosha  Raw Water/ L. Michigan
CHEMICAL ANALYSES mg/l	Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Hardness(Tot.)	Hurley Distribution System  Purification Plant  .1  -	Dodgeville	Black R. Falls  Ground Water/ Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 .03 - <.05 <.0002 <.04 .01  98 13 10 1.2 60	Johnson Creek  Ground Water/ Distribution System None  <.1	New Lisbon   Ground Water	Kenosha  Raw Water/ L. Michigan
CHEMICAL ANALYSES mg/l	Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Hardness(Tot.)	Hurley Distribution System  Purification Plant .1	Dodgeville	Black R. Falls  Ground Water/ Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 .03 - <.05 <.0002 <.04 .01  98 13 10 1.2 60 .36	Johnson Creek  Ground Water/ Distribution System None  <.1	New Lisbon  Ground Water/ Distribution System None  -1 -(.02 <.5 <.2 <.01 <.03 1.0 - <.05 <.0002 <.04 <.01  106 34 0 .2 116 .2	Kenosha  Raw Water/ L. Michigan   <.1 <.02 <.5 .2 <.01 <.03 .06 <.04 <.00002 <.04 .16  110 35 10 .20 136 .18
CHEMICAL ANALYSES mg/l	Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Fluorides Fluorides Hardness(Tot.) Iron Magnesium	Hurley Distribution System  Purification Plant .1	Dodgeville	Black R. Falls  Ground Water/ Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 .03 - <.05 <.0002 <.04 .01  98 13 10 1.2 60 .36 7	Johnson Creek  Ground Water/ Distribution System None  <.1 - <.02 .5 <.2 <.01 <.03 .04 - <.04 <.0002 <.04 .09  282 60 12 1.3 292 .18 35	New Lisbon  Ground Water/ Distribution System  None  .1 - <.02 <.5 <.2 <.01 <.03 1.0 - <.05 <.0002 <.04 <.01  106 34 0 .2 116 .2 7.5	Kenosha  Raw Water/ L. Michigan   <.1 <.02 <.5 .2 <.01 <.03 .06 <.04 <.0002 <.04 .16  110 35 10 .20 136 .18 12
CHEMICAL ANALYSES mg/l	Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Hardness(Tot.)	Hurley Distribution System  Purification Plant .1	Dodgeville	Black R. Falls  Ground Water/ Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 .03 - <.05 <.00002 <.04 .01  98 13 10 1.2 60 .36 7 <.04	Johnson Creek  Ground Water/ Distribution System None  <.1	New Lisbon  Ground Water/ Distribution System None  -1 -(.02 <.5 <.2 <.01 <.03 1.0 - <.05 <.0002 <.04 <.01  106 34 0 .2 116 .2	Kenosha  Raw Water/ L. Michigan   <.1 <.02 <.5 .2 <.01 <.03 .06 <.04 <.00002 <.04 .16  110 35 10 .20 136 .18
CHEMICAL ANALYSES mg/l	Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Fluorides Hardness(Tot.) Iron Magnesium Manganese	Hurley Distribution System  Purification Plant .1 - <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.00002 <.04 1.4 8 22 14 .2 76 1.36 5 0.1 <.2	Dodgeville	Black R. Falls  Ground Water/ Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 .03 - <.05 <.0002 <.04 .01  98 13 10 1.2 60 .36 7 <.04 1.6	Johnson Creek  Ground Water/ Distribution System None  <.1	New Lisbon  Ground Water/ Distribution System  None  -1 -(.02 <.5 <.2 <.01 <.03 1.0 -(.05 <.0002 <.04 <.01  106 34 0 .2 116 .2 7.5 <.004 .2	Kenosha  Raw Water/ L. Michigan
CHEMICAL ANALYSES mg/l	Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Hardness(Tot.) Iron Magnesium Manganese Nitrite + Nitrate-(N) Sodium	Hurley Distribution System  Purification Plant  .1  .02 <.5 <.2 <.01 <.03 <.03 - <.04 <.00002 <.04 1.4  8 22 14	Dodgeville	Black R. Falls  Ground Water/ Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 .03 - <.05 <.0002 <.04 .01  98 13 10 1.2 60 .36 7 <.04 1.6 31	Johnson Creek  Ground Water/ Distribution System None  <.1	New Lisbon  Ground Water/ Distribution System None  .1 - <.02 <.5 <.2 <.01 <.03 1.0 - <.05 <.0002 <.04 <.01  106 34 0 .2 116 .2 7.5 <.04	Kenosha  Raw Water/ L. Michigan
CHEMICAL ANALYSES mg/l	Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Fluorides Hardness(Tot.) Iron Magnesium Manganese Nitrite + Nitrate-(N) Sodium Sulfates	Hurley Distribution System  Purification Plant .1 - <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.00002 <.04 1.4 8 22 14 .2 76 1.36 5 0.1 <.2	Dodgeville	Black R. Falls  Ground Water/ Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 .03 - <.05 <.0002 <.04 .01  98 13 10 1.2 60 .36 7 <.04 1.6	Johnson Creek  Ground Water/ Distribution System None  <.1	New Lisbon  Ground Water/ Distribution System  None  -1 -(.02 <.5 <.2 <.01 <.03 1.0 -(.05 <.0002 <.04 <.01  106 34 0 .2 116 .2 7.5 <.004 .2	Kenosha  Raw Water/ L. Michigan
	Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Fluorides Fluorides Hardness(Tot.) Iron Magnesium Manganese Nitrite + Nitrate-(N) Sodium Sulfates Total	Hurley Distribution System  Purification Plant .1	Dodgeville	Black R. Falls  Ground Water/ Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 .03 - <.05 <.0002 <.04 .01  98 13 10 1.2 60 .36 7 <.04 1.6 31 17	Johnson Creek  Ground Water/ Distribution System None  <.1 - <.02 .5 <.2 <.01 <.03 .04 <.04 <.0002 <.04 .09  282 60 12 1.3 292 .18 35 .05 <.2 6.0 13	New Lisbon  Ground Water/ Distribution System  None	Kenosha  Raw Water/ L. Michigan   <.1 <.02 <.5 .2 <.01 <.03 .06 <.04 <.0002 <.04 .16  110 35 10 .20 136 .18 12 <.04 .3 5.5 21
	Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Hardness(Tot.) Iron Magnesium Manganese Nitrite + Nitrate-(N) Sodium Sulfates Total Solids	Hurley Distribution System  Purification Plant  .1  .02 <.5 <.2 <.01 <.03 <.03 - <.04 <.00002 <.04 1.4  8 22 14	Dodgeville	Black R. Falls  Ground Water/ Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 .03 - <.05 <.0002 <.04 .01  98 13 10 1.2 60 .36 7 <.04 1.6 31	Johnson Creek  Ground Water/ Distribution System None  <.1 - <.02 .5 <.2 <.01 <.03 .04 <.04 <.0002 <.04 .09  282 60 12 1.3 292 .18 35 .05 <.2 6.0 13 330	New Lisbon  Ground Water/ Distribution System None  .1 - <.02 <.5 <.2 <.01 <.03 1.0 - <.05 <.0002 <.04 <.01  106 34 0 .2 116 .2 7.5 <.04	Kenosha  Raw Water/ L. Michigan
	Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Fluorides Fluorides Hardness(Tot.) Iron Magnesium Manganese Nitrite + Nitrate-(N) Sodium Sulfates Total	Hurley Distribution System  Purification Plant  .1  .02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 1.4  8 22 14  .2 76 1.36 5 0.1 <.2 2 51 130 6.1 -	Dodgeville	Black R. Falls  Ground Water/ Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 .03 - <.05 <.0002 <.04 .01  98 13 10 1.2 60 .36 7 <.04 1.6 31 17 166 7.9 -	Johnson Creek  Ground Water/ Distribution System None  <.1 - <.02 .5 <.2 <.01 <.03 .04 <.04 <.0002 <.04 .09  282 60 12 1.3 292 .18 35 .05 <.2 6.0 13	New Lisbon  Ground Water/ Distribution System None  -1 -(.02 <.5 <.2 <.01 <.03 1.0 -(.05 <.0002 <.04 <.01  106 34 0 .2 116 .2 7.5 <.004 .2 11 74	Kenosha  Raw Water/ L. Michigan   <.1 <.02 <.5 .2 <.01 <.03 .06 <.04 <.0002 <.04 .16  110 35 10 .20 136 .18 12 <.04 .3 5.5 21
	Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Hardness(Tot.) Iron Magnesium Manganese Nitrite + Nitrate-(N) Sodium Sulfates Total Solids pH (Lab)	Hurley Distribution System  Purification Plant .1	Dodgeville	Black R. Falls  Ground Water/ Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 .03 - <.05 <.0002 <.04 .01  98 13 10 1.2 60 .36 7 <.04 1.6 31 17 166 7.9 - Cast iron	Johnson Creek  Ground Water/ Distribution System None  <.1	New Lisbon   Ground Water	Kenosha  Raw Water/ L. Michigan
	Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Hardness(Tot.) Iron Magnesium Manganese Nitrite + Nitrate-(N) Sodium Sulfates Total Solids pH (Lab) pH (Field)	Hurley Distribution System  Purification Plant .1	Dodgeville	Black R. Falls  Ground Water/ Distribution System None  <.1 - <.02 <.5 <.2 <.01 <.03 .03 - <.05 <.0002 <.04 .01  98 13 10 1.2 60 .36 7 <.04 1.6 31 17 166 7.9 -	Johnson Creek  Ground Water/ Distribution System None  <.1	New Lisbon  Ground Water/ Distribution System  None  -1 -(.02 <.5 <.2 <.01 <.03 1.0 -(.05 <.0002 <.04 <.01  106 34 0 .2 116 .2 7.5 <.04 .2 11 74 8.0 6.7	Kenosha  Raw Water/ L. Michigan

	County and Community	KENOSHA Kenosha	LA CROSSE La Crosse	LAFAYETTE Shullsburg		IGLADE Intigo	MANITOWOC Manitowoc
,	Source of Sample	Distribution System	Ground Water/ Distribution System	Ground Water/ Distribution System	Raw Water/ Well #9	Ground Water/ Distribution System	Ground Water/ Distribution System
	Treatment	Purification Plant	None	None	-	Lime Softening	None
T	MBAS	<.1	<.1	<.1	<.1	<.1	<.1
	Ammonia (N)	-	-	-	-	-	-
	Arsenic	<.02	<.02	<.02	<.02	<.02	<.02
	Barium	<.5	<.5	<.5	<.5	<.5	<.5
	Boron	.2	<.2	<.2	<.2	<.2	<.2
	Cadmium	<.01	<.01	<.01	<.01	<.01	<.01
	Chromium	<.03	<.03	<.03	<.03	<.03	<.03
	Copper	<.03	<.02	<.02	<.03	<.03	<.02
	Cyanide	<.02	-	-	-	-	-
	Lead	<.04	<.05	<.05	<.05	<.05	<.05
ည္သ	Mercury	<.0002	<.0002	<.0002	<.0002	<.0002	<.0002
ANALYSES	Silver	<.04	<.04	<.04	<.04	<.04	<.04
ij	Zinc	.24	0.7	<.01	•35	•3	.04
78	Alkalinity						_
. 7 _	$Tot.(CaCO_3)$	100	232	268	144	32	158
CHEMICAL .mg/l	Calcium	34	67	59	37	17	50
Ħ Ħ	Chlorides	12	11	3	30	28	14
自	Fluorides	1.15	.20	1.7	.25	1.1	.85
ວ		132	280	280	188	80	208
	Iron	.18	.06	0.12	.08	.26	.32
	Magnesium	12	27	32	23	4	20
	Manganese	<.04	<.04	<.04	1.13	<.03	<.04
	Nitrite +						
	Nitrate-(N)	•3	2.7	<.1	1.04	1.36	<.2
	Sodium	5.5	6	3.5	11	9	, 6 <b>.</b> 5
	Sulfates	24	39	14	24	21	42
	Total						
-	L Solids	166	340	295	232	120	256
ָם ב	L SOLIGS   pH (Lab)   pH (Field)	7.8	7.8	7.5	7.4	9.2	7.9
ω.	pH (Field)	7.4			-	9.2	7.4
	Comments	Copper service line	Iron service, galvanized plumbing	Copper service		Galvanized piping	

County and Community	MANIT Two P		MARA Edgar	ATHON Wausau	MARINETTE Marinette		
Source of Sample	Raw Water/ L. Michigan	Distribution System	Ground Water/ Distribution System	Ground Water/ Distribution System	Raw Water/ L. Michigan	Distribution System	
Treatment	-	Purification Plant	None	Lime Softening	-	Purification Plant	
T MBAS	<.1	<.1	<.1	<.1	<.1	<.1	
Ammonia(N)	•05	<.03	-	-	.18	.07	
Arsenic	<.02	<.02	<.02	<.02	<.02	<.02	
Barium	<.5	<.5	<.5	<.5	<.5	<.5	
Boron	<.2	<.2	<.2	<.2	<.2	<.2	
Cadmium	<.01	<.01	<.01	<.01	<.01	<.01	
Chromium	<.03	<.03	<.03	<.03	<.03	<.03	
Copper	.03	<.02	<.03	<.03	.1	<.03	
Cyanide	_	<.02	_	<u> </u>	_	-	
Lead	<.05	<.05	<.05	<.05	< .04	<.04	
Mercury	<.0002	<.0002	<.0002	<.0002	<.0002	<.0002	
Silver	<.04	<.04	< .04	<.04	<.04	<.04	
Zinc	.1	<.01	.04	.01	<.01	.06	
Alkalinity							
Tot.(CaCO <sub>3</sub> )	112	100	118	58	102	82	
Calcium	34	34	37	22	30	32	
chlorides	7	9	10	11	14	10	
Fluorides	.20	1.05	.25	1.15	.25	.30	
Calcium Chlorides Fluorides Hardness(Tot.)	136	136	136	76	124	128	
Iron	.54	.06	.04	.08	.18	.14	
Magnesium	12	12	11	5	12	12	
Manganese	<.04	< . 04	<.04	<.04	<.04	<.04	
Nitrite +				• • •	• • • •		
Nitrate-(N)	<.2	<.2	.64	.32	<.2	<.2	
Sodium	4.5	5	7.5	5	3.5	4	
Sulfates	19	28	17	10	17	40	
Total	•	-			±1		
0.1:1	192	146	154	124	156	158	
TpH (Lab)	8.1	8.2	7.2	8.1	7.5	7.4	
pH (Field)	8.5	_	7.0	8.0	7.3	-	
Comments		Lead	Copper	Copper &	Tot. Org.	Copper	
		service	service	galvanized	N29	service	
			222,1200	service	cop. serv.	201,100	

	County and Community		OMINEE .	MILWA Cud			AUKEE nore Wtr. Comm.)
	Source of Sample	Raw Water/ Wolf River	Distribution System	Raw Water/ L. Michigan	Distribution System	Raw Water/ L. Michigan	Distribution System
	Treatment	-	Purification Plant	-	Purification Plant	-	Purification Plant
Τ	MBAS	<.1	<.1	<.1	<.1	<.1	<.1
	${\tt Ammonia}({\tt N})$	.03	.08	-	-	.06	<.03
	Arsenic	<.02	<.02	<.02	<.02	<.02	<.02
Ì	Barium	<.5	<.5	<.5	<.5	<.5	<.5
	Boron	<.2	<.2	<.2	<.2	<.2	<.2
	Cadmium	<.01	<.01	<.01	<.01	<.01	<.01
	Chromium	<.03	<.03	<.03	<.03	<.03	<.03
	Copper	<.03	<.03	<.03	<.03	<.02	<.02
	Cyanide	-	-	_	<.02	-	-
,	Lead	<.04	<.04	< .04	<.04	<.05	<.05
ł	Mercury	<.0002	<.0002	<.0002	<.0002	<.0002	<.0002
1	Silver	<.04	<.04	<.04	< .04	<.04	< .04
ស៊	Zinc	.02	.02	<.01	•7	<.01	<.01
SE	Alkalinity						
Į.	Tot.(CaCO3)	156	146	118	102	112	100
ANALYSES	Calcium	35	13	37	37	35	35
4	Chlorides	1	4	17	13	10	13
\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Fluorides	•35	1.0	.25	1.05	.20	.70
일랍	<pre>Hardness(Tot.)</pre>	160	84	140	140	132	132
Ē	Iron	.24	.08	•3	.1	.12	.04
CHEMICAL mg/1	Magnesium	18	12	12	12	11	11
	Manganese	<.04	<.04	<.04	<.04	<.04	<.04
	Nitrite +						
1	Nitrate-(N)	.7	•7	• 4	.4	.28	.8
	Sodium	2 8	42	9.5	9 29	5	6
	Sulfates	8	8	25	29	20	27
	Total						
1	. Solids	168	164	198	216	162	174
ns	pH (Lab)	8.1	8.0	8.1	7.9	8.1	7.9
ω	pH (Field)			8.15	7.5	7.8	7.6
	Comments	Galvanized	Tot. Org.		Copper		Copper
		tap	N21		service		service
			galv. serv.		line		line
•							

County and Community		Milwaukee	MILWAUKEE	South M	lilwaukee
Source of Sample	Raw Water/ (Linwood Intake) L. Michigan	Raw Water/ (Texas Ave. Int.) Lake Michigan	Distribution System	Raw Water/ L. Michigan	Distribution System
Treatment	-	-	Purification Plant	-	Purification Plant
MBAS	<.1	<.1	<.1	<.1	<.1
Ammonia(N)	-	-	_	_	<del>-</del>
Arsenic	<.02	<.02	<.02	<.02	<.02
Barium	<.5	<.5	<.5	<.5	<.5
Boron	<.2	<.2	<,2	<.2	<.2
Cadmium	<.01	<.01	<.01	<.01	<.01
Chromium	<.03	<.03	<.03	<.03	<.03
Copper	.04	<.03	<.03	<.03	<.03
Cyanide	_	-	<.02	-	-
Lead	<.04	<.04	<.04	<.04	<.04
Mercury	<.0002	<.0002	<.0002	<.0002	<.0002
Silver	<.04	<.04	<.04	<.04	<.04
Zinc	<.01	.03	.05	<.01	.08
Alkalinity					
Tot.(CaCO3)	106	114	100	118	88
Calcium	3 <sup>1</sup> 4 8	35 14	34	37	37
Chlorides		14	13	16	16
Fluorides	.20	.25	.95	.25	1.10
Hardness(Tot.)	132	140	136	140	136
Iron	.06	.2	.14	.56	.04
Magnesium	12	12	12	12	11
Manganese	<.04	<.04	<.04	<.04	<.04
Nitrite +				•••	.04
Nitrate-(N)	<.2	•3	.4	0.4	0.3
Sodium	4.5	7.5	6	9	8.5
Sulfates	17	23	26	25	44
Total	·			/	77
⊥ Solids	172	172	174	204	186
TpH (Lab)	8.2	7.9	7.9	8.1	7.9
pH (Field)	8.2	8.4	7.5	8.3	7.5
Comments	<del></del>		Copper	Temp (CO) 3	Temp (C°) 6
			service	τemb (c <sub>-</sub> ) 2	Copper serv.
			line		copper serv.

	County and Community	Sparta	MONROE To	omah	<ul> <li>ONEļDA</li> <li>Rhinelander</li> </ul>		GAMIE auna
	Source of Sample	Ground Water/ Distribution System	Ground Water/ Raw	Ground Water/ Distribution System	Ground Water/ Distribution System	Raw Water at Filter Plant	Ground Water/ Distribution System
	Treatment	None	<del>-</del>	Iron Removal	None		Iron Removal
Т	MBAS	<.1	<.1	<.1	<.1	<.1	<.1
	$\operatorname{Ammonia}(\mathbb{N})$	_	-	_	-	.19	.12
İ	Arsenic	<.02	<.02	<.02	<.02	<.02	<.02
	Barium	<.5	<.5	<.5	<.5	<.5	<.5
	Boron	<.2	<.2	<.2	<.2	<.2	<.2
	Cadmium	<.01	<.01	<.01	<.01	<.01	<.01
	Chromium	<.03	<.03	<.03	<.03	<.03	<.03
	Copper	.02	.05	<.02	0.2	<.03	<.03
	Cyanide	_	_	_	-	_	-
	Lead	<.05	<.05	<.05	<.05	<.04	<.04
Ø	Mercury	<.0002	<.0002	<.0002	<.0002	<.0002	<.0002
ANALYSES	Silver	<.04	<.04	<.04	<.04	<.04	<.04
겁	Zinc	0.1	.03	.06	.01	.01	.01
A	Alkalinity						
⋖	Tot. (CaCO2)	98	38	42	46	190	180
CHEMICAL mg/l	Calcium	98 27	12	14	15	220	202
I B	Chlorides	3	1	7	4	8	6
Ξ	Fluorides	1.00	.10	.10	.95	2.30	3.15
CH	Hardness(Tot.)	116	48	60	76	630	640
	Iron	1 <b>.5</b> 6	•3	0.1	.04	.54	.1
	Magnesium	12	4	14	9	19.5	33
	Manganese	.08	<.04	<.04	<.03	<.04	<.04
	Nitrite +						
	Nitrate-(N)	.36	2.2	2.2	.44	<.2	<.2
i	Sodium	2.5		5	3.8	12	12.5
-	Sulfates	14	2	12	10	445	450
ľ	Total					-	
	Solids	146	80	120	92	836	836
	pH (Lab)	7.4	6.8	6.9	7.0	7.8	8.0
ns	pH (Field)	_	_	-	6.7	·_	_
	Comments	Galvanized		Cast iron serv.	Cast iron serv.		Copper
		service		galv. bldg.	copper & galv.		service line

County and	OUTAGAMIE			ZAUKEE	/	PIERCE	
Community	Apple		Cedarburg		/ashington	Ellsworth	
Source of	Raw Water/	Distribution	Ground Water/	Raw Water/	Distribution	Ground Water	
Sample	L. Winnebago	System	Distribution	L. Michigan	System	Distribution	
			System			System	
Treatment	-	Purification	None	-	Purification	None	
		Plant			Plant		
MBAS	<.1	<.1	<.1	<.1	<.1	<.1	
Ammonia(N)	.14	.54	_	.03	.09	_	
Arsenic	<.02	<.02	<.02	<.02	<.02	<.02	
Barium	<.5	<.5	<.5	<.5	<.5	<.5	
Boron	<.2	<.2	<.2	<.2	<.2	<.2	
Cadmium	<.01	<.01	<.01	<.01	<.01	<.01	
Chromium	<.03	<.03	<.03	<.03	<.03	<.03	
Copper	.32	<.03	<.02	<.03	<.03	.07	
Cyanide	-	-	_	_	_	<u>.</u>	
Lead	<.04	<.04	<.05	<.05	<.05	<.05	
Mercury	<.0002	<.0002	<.0002	<.0002	<.0002	<.0002	
Silver	<.04	<.04	<.04	< .04	< .04	<.04	
Zinc	.01	<.01	.15	.02	.04	.02	
Alkalinity	• • • •		,				
Tot.(CaCO <sub>3</sub> )	146	72	288	108	96	294	
Calcium	37	22	81	36.5	36.5	84	
Chlorides	15	14	9	6.5	10	15	
Fluorides	.45	.85	.9	.20	1.25	1.05	
Hardness (Tot.)	176	116	356	132	132	336	
Iron	.1	.04	<.04	0.50	.08	.08	
Magnesium	20	15	37	10	10	31	
Manganese	<.04	<.04	<.04	<.04	.05	<.03	
Nitrite +					,		
Nitrate-(N)	•3	0.5	.32	<.2	<.2	3,2	
Sodium	6	7.5	5	4.5	4.5	7.1	
Sulfates	16	34	70	18	25	27	
Total	10	J <del>-1</del>	10	10	->	-1	
Solids	244	166	430	154	156	410	
T pH (Lab)	7.9	9.2	7.9	8.0	8.2	7.8	
pH (Field)	-	J•C	7.2	7.6	-	-	
Comments		Lead serv.	Lead serv.	Copper	Copper	Copper	
COMMETTER		line	line-copper	service	service	service	
		11110	plumbing	201 4100	2017100	line	

County and	PORTAGE	PRICE		RACINE		RICHLAND
Community	Stevens Point	Park Falls	Rac		Union Grove	Richland Center
Source of	Ground Water/	Ground Water/	Raw Water/	Distribution	Ground Water/	Ground Water,
Sample	Distribution	Distribution	L. Michigan	System	Distribution	Distribution
	System	System			System	System
Treatment	None	None		Purification	None	None
				Plant		
T MBAS	<.1	<.1	<.1	<.1	<.1	<.1
Ammonia(N)	_	_	_	_	_	-
Arsenic	<.02	<.02	<.02	<.02	<.02	<.02
Barium	<.5	<.5	<.5	<.5	<.5	<.5
Boron	<.2	<.2	<.2	<.2	<.2	<.2
Cadmium	<.01	<.01	<.01	<.01	<.01	<.01
Chromium	<.03	<.03	<.03	<.03	<.03	<.03
Copper	<.03	<.03	.05	<.03	.04	<.02
Cyanide	-	_	=	<.02	_	_
Lead	<.05	<.04	<.04	<.04	<.04	<.05
Mercury	<.0002	<.0002	<.0002	<.0002	<.0002	<.0002
Silver	<.04	<.04	<.04	<.04	<.04	<.04
Zinc	.01	1.1	.04	<.01	<.01	<.01
Alkalinity						
Tot.(CaCO2)	136	112	116	106	250	216
Calcium	32	34	35	37	62	49
Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides Hardness(Tot.)	4	1	16	16	7	2
Fluorides	.20	.20	0.25	1.10	1.15	1.00
Hardness (Tot.)	144	120	140	140	240	224
Iron	.06	.14	0.04	.04	1.04	.12
Magnesium	15	8	12	12	21	25
Manganese	<.04	<.04	<.04	<.04	<.04	<.04
Nitrite +						
Nitrate-(N)	1.1	<.2	0 <b>.5</b>	0.4	<.2	.32
Sodium	2	3	8.5	9	20	1.5
Sulfates	7	7	25	27	54	13
Total						
⊥ Solids	184	132	230	184	352	224
pH (Lab)	7.7	7.8	8.0	8.0	8.1	8.3
pH (Field)	7.5	6.9	8.6		7.5	_
Comments	Temp (CO) 5	Galvanized	Sample from	Temp (CO) 6		
	galv. serv.	service	copper serv.	galv. serv.		

County and Community	ROCK Beloit	RUSK Ladysmith	SAUK Reedsburg	SAWYER Hayward	SHAWANO Shawano	SHEBOYGAN Sheboygan
Source of Sample	Ground Water/ Distribution System	Raw Water/ L. Michigar				
Treatment	None	None	None	None	None	-
T MBAS	<.01	<.1	·····		······································	<.1
Ammonia(N)	-	-	_	_	-	.04
Arsenic	<.02	<.02	<.02	<.02	<.02	<.02
Barium	<.5	<.5	<.5	<.5	<.5	<.5
Boron	<.2	<.2	<.2	<.2	<.2	<.2
Cadmium	<.01	<.01	<.01	<.01	<.01	<.01
Chromium	<.03	<.03	<.03	<.03	<.03	<.03
Copper	<.03	<.02	<.02	<.03	.05	<.02
Cyanide	-	-	-	_	_	-
Lead	<.04	<.05	<.05	<.04	<.05	<.05
Mercury	<.0002	<.0002	<.0002	<.0002	<.0002	<.0002
Silver	<.04	<.04	<.04	<.04	<.04	<.04
Zinc	.05	.08	<.1	1.1	.08	.05
Alkalinity		***	·-		*	***
	260	120	174	124	220	112
Tot.(CaCO <sub>3</sub> ) Calcium Chlorides Fluorides	64	40	39	34	47	34
Chlorides	24	14.5	2	3	3	8
Fluorides	•3	1.0	1.40	1.20	.15	.20
Hardness (Tot		156	172	124	240	136
Iron	.04	.08	.08	.44	.04	.26
Magnesium	38	14	18	10	30	12
Manganese	<.04	.09	<.04	.8	<.04	<.04
Nitrite +	1.04	•09	1.04	••	1.04	1.04
Nitrate-(N)	1.5	1.0	.64	<.2	1.7	<.2
Sodium	10.5	5	2	3	1.5	4.5
Sulfates	43	18	4	1	10	17
Total	73	10	7	_	10	<b>-</b> 1
Solids	378	204	184	162	254	188
T pH (Lab)	7.8	7.5	8.3	8.0	7.8	8.0
pH (Field)	-	6.9	7.0	7.1	7.3	8.0
Comments	Copper	Copper	Copper	Lead &	Copper	0.0
Commercia	service	service	service	galvanized	service	
	line	PGT.ATGG	PELATGE	service	PELATCE	

	County and Community	SHEBOYGAN Sheboygan	ST. CROIX New Richmond	TAY Rib L	LOR · .ake		PEALEAU itehall
	Source of Sample	Distribution System	Ground Water/ Distribution System	Raw Water/ Rib Lake	Finished Water	Ground Water/ Raw	Ground Water/ Distribution System
	Treatment	Purification Plant	None	-	Purificati Plant	on -	Zeolite Softening & Iron Removal
-	MBAS	<.1	<.1	<.2	<.1	<.1	<.1
	Ammonia(N)	.09	-	-	-	-	_
	Arsenic	<.02	<.02	<.02	<.02	<.02	<.02
	Barium	<.5	<.5	<.5	<.5	<.5	<.5
	Boron	<.2	<.2	<.2	<.2	<.2	<.2
	Cadmium	<.01	<.01	<.01	<.01	<.01	<.01
	Chromium	<.03	<.03	<.03	<.03	<.03	<.03
	Copper	<.02	<.02	<.03	<.03	.11	<.02
	Cyanide	<.02	_	_	_	_	_
	Lead	<.05	<.05	<.04	<.04	<.05	<.05
	Mercury	<.0002	<.0002	<.0002	<.0002	<.0002	<.0002
	Silver	<.04	<.04	<.04	<.04	<.04	<.04
	Zinc	.05	.02	1.0	0.04	.07	.01
ស្ដ	Alkalinity						V - <del>L</del>
[3]	Tot.(CaCO3)	100	192	8	42	90	112
ANALYSES	Calcium	34	44	5	7	22	20
Š	Chlorides	9	<1	ó	ù	5	4
. 3	Fluorides	1.10	1.8	.15	.25	.55	1.05
CHEMICAL mg/1	Hardness(Tot.)	136	200	24	24	100	88
H H	Iron	.06	<.04	.28	.52	5.65	0.22
Ē	Magnesium	13	22	3	. ) 2 1	11	9
Ë	Magnesium Manganese	<.04	<.04	<.04	<.04	0.2	.14
	Nitrite +	<b>\.</b> 04	V. 04	<b>\.</b> 04	<b>\.</b> 04	0.2	•14
	Nitrate-(N)	0.3	.64	<.2	<.2	<.1	.16
	Sodium	6	2.5	1	30	5	21
	Sulfates	30	2.) 4	6	30	23	16
	Total	30	4	O	30	23	. 10
	Solids	162	210	36	150	156	164
	∟ bolids ⊢pH (Lab)	7.7	8.2	6 <b>.</b> 9	8.0	7.6	8.4
ສຸກ			0.2	6.1		( •0	0.4
	pH (Field)				8.1 Color 20		
	Comments	Copper service	Copper service	Color 40	Color 20 Copper service	J	Galvanized serv. copper bldg. pipe

County and	VERNON			ORTH .	_	WASHINGTO
Community	Viroqua	Elkl			Geneva	West Bend
Source of Sample	Ground Water/ Distribution System	Raw Water/ Well No. 5	Ground Water/ Distribution System	Ground Water/ Raw	Ground Water/ Distribution System	Ground Water Distribution System
Treatment	None		Zeol. Softening & Iron Removal	-	Zeol. Softenir & Iron Removal	ng None
MBAS	<.1	<.1	<.1	<.1	<.1	<.1
Ammonia(N)	_	_	_	-	_	_
Arsenic	<.02	<.02	<.02	<.02	<.02	<.02
Barium	<.5	1.0	<.5	<.5	<.5	<.5
Boron	<.2	<.2	<.2	<.2	<.2	<.2
Cadmium	<.01	<.01	<.01	<.01	<.01	<.01
Chromium	<.03	<.03	<.03	<.03	<.03	<.03
Copper	<.02	<.03	.04	<.03	<.03	.03
Cyanide	_	_	_	_	-	-
Lead	<.05	<.04	<.04	< . 04	<.04	<.05
Mercury	<.0002	<.0002	<.0002	<.0002	<.0002	<.0002
Silver	<.04	<.04	<.04	<.04	<.04	<.04
Zinc	.02	.01	.07	.02	0.1	.02
Alkalinity				**-		• • •
Tot. (CaCO <sub>3</sub> )	154	332	290	248	314	3 <b>0</b> 2
Calcium	42	54	13	49	79	82
Chlorides	13	0	10	19	19	13
Fluorides	.15	.30	.95	.30	.75	1.3
Hardness(Tot.)	200	280	72	264	366	372
Iron	.04	•5	.08	.96	1.1	.04
Magnesium	23	35	10	34	41	40
Manganese	<.04	.06	.12	.05	<.04	<.04
Nitrite +		•00	• ===	•0)	1.04	1.04
Nitrate-(N)	5.1	<.2	1.5	•7	1.9	1.3
Sodium	6.5	13	127	11	11	4
Sulfates	21	<2	<2	22	41	64
Total			· <b>-</b>			J-1
- Solids	250	316	390	324	408	445
pH (Lab)	7.9	7.7	8.9	8.0	7.9	7.7
pH (Field)	-	7.7	9.0	7.6	8.0	· · ·
Comments	Copper		Copper	1.0	Copper	Copper
COMMICTION	service		service		service	service
	201 1100		line		line	PCT ATCC

County and Community	WAUKESHA Waukesha	WAUP/ King (Grand A		WAUSHARA Coloma		INEBAGO Menasha
Source of Sample	Ground Water Distribution System	,	Distribution System	Ground Water/ Distribution System	Raw Water/ L. Winnebago	Distribution System
Treatment	None	_	Purification Plant	None	-	Purification Plant
T MBAS	<.1	<.1	<.1	<.1	<.1	<.1
Ammonia(N)	-	.05	.07	_	.19	.12
Arsenic	<.02	<.02	<.02	<.02	<.02	<.02
Barium	<.5	<.5	<.5	<.5	<.5	<.5
Boron	<.2	<.2	<.2	< .2	<.2	<.2
Cadmium	<.01	<.01	<.01	<.01	<.01	<.01
Chromium	<.03	<.03	<.03	<.03	<.03	<.03
Copper	<.02	<.02	<.02	.12	<.03	.04
Cyanide	-	-	-	-	-	-
Lead	<.05	<.05	<.05	<.05	<.04	<.04
Mercury	<.0002	<.0002	<.0002	<.0002	<.0002	<.0002
Silver	<.04 .01	<.04 .16	<.04	<.04	<.04	<.04
Zinc Alkalinity	•01	.10	<.01	.02	.01	.01
Tot.(CaCO	3) 202	162	42	156	156	120
Tot.(CaCO	76	162 34	10	3 <sup>1</sup> 4	156 37	132 35
Chlorides	10	6	9	0	31 9	35 10
Fluorides	1.05	•25	.25	•95	•35	1.05
Hardness (To		180	64	160	180	172
Iron	.34	.10	.06	.06	.18	.34
Magnesium	27.5	24	10	18	21	20
Manganese	<.04	<.04	<.04	<.04	<.04	<.04
Nitrite +		_				
Nitrate-(N		.6	.6	2.1	0.4	.4
Sodium	7	3.5	7	1	6	6.5
Sulfates	80	10	17	<1	18	36
Total Solids	380	208	700	200		0
T ( \	7.9	8.2	100 8.2	202 8.0	232 8.0	228
	7.7	-	-	-	0.0	7.5
		Galvanized	Galvanized &	Galvanized	Tot. Org.	Tot. Org.
pH (Field) Comments	Copper					
pH (Field)	Copper service	service	copper serv.	plumbing	_	
pH (Field) Comments  County and Community	service Ne	service line WINNI enah	copper serv.	osh	N55 WOOD Port Edwa	N41 Copper serv.
pH (Field) Comments  County and	service	service line WINNI	copper serv.		N55	N41 Copper serv.
County and Community Source of	service  Ne Raw Water/	service line WINNI enah Distribution	copper serv.  EBAGO Oshk Raw Water/	osh Finished	N55  WOOD Port Edwa	N41 Copper serv.
County and Community Source of Sample Treatment	service  Ne  Raw Water/ L. Winnebago	service line  WINNI enah  Distribution System	EBAGO Oshk Raw Water/ L. Winnebago	osh Finished Water  Purification Flant	WOOD Port Edwa Raw Water/ Well & Lake Nepco	N41 Copper serv.  ords Distribution System
County and Community Source of Sample Treatment	service  Ne Raw Water/ L. Winnebago - <.1	service line  WINNI enah  Distribution System  Purification Plant  <.1	copper serv.  EBAGO Oshk Raw Water/ L. Winnebago - <.1	osh Finished Water  Purification Plant <.1	WOOD Port Edwa Raw Water/ Well & Lake Nepco	N41 Copper serv.  ords Distribution System Purification
PH (Field) Comments  County and Community Source of Sample Treatment	service  Ne  Raw Water/ L. Winnebago	service line  WINNI enah  Distribution System  Purification Plant	copper serv.  EBAGO Oshk Raw Water/ L. Winnebago	osh Finished Water  Purification Flant	WOOD Port Edwa Raw Water/ Well & Lake Nepco	N41 Copper serv.  ards Distribution System  Purification Plant <.1
County and Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic	Raw Water/ L. Winnebago  -  <.1 .12 <.02	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02	Copper serv.  EBAGO  Oshk  Raw Water/ L. Winnebago  -  <.1 .30 <.02	osh Finished Water  Purification Plant <.1 .18 <.02	WOOD Port Edwa Raw Water/ Well & Lake Nepco - <.1 - <.02	N41 Copper serv.  Irds Distribution System  Purification Plant <.1 - <.02
County and Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium	Raw Water/ L. Winnebago  -  <.1 .12 <.02 <.5	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5	Copper serv.  BAGO Oshk Raw Water/ L. Winnebago - <.1 .30 .02 .5	osh Finished Water  Purification Plant <.1 .18 <.02 <.5	WOOD Port Edwa Raw Water/ Well & Lake Nepco - <.1 - <.02 <.5	N41 Copper serv.  Inds Distribution System Purification Plant <.1 - <.02 <.5
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron	Ne Raw Water/ L. Winnebago  -  <.1 .12 <.02 <.5 <.2	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5 <.2	Copper serv.  EBAGO  Oshk  Raw Water/ L. Winnebago  -  <.1 .30 <.02 <.5 <.2	osh Finished Water  Purification Plant <.1 .18 <.02 <.5 <.2	WOOD Port Edwa Raw Water/ Well & Lake Nepco - <.1 - <.02 <.5 <.2	N41 Copper serv.  Inds  Distribution System  Purification Plant  <.1 <.02 <.5 <.2
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium	Ne   Raw Water/   L. Winnebago   -	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5 <.2 <.01	Copper serv.  EBAGO Oshk Raw Water/ L. Winnebago - <.1 .30 <.02 <.5 <.2 <.01	osh Finished Water  Purification Flant  <.1 .18 <.02 <.5 <.2 <.01	WOOD Port Edwa Raw Water/ Well & Lake Nepco - <.1 - <.02 <.5 <.2 <.01	N41 Copper serv.  ords Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium	Ne   Raw Water/   L. Winnebago   -	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5 <.2 <.01 <.03	copper serv.  BAGO Oshk Raw Water/ L. Winnebago  - <.1 .30 <.02 <.5 <.2 <.01 <.03	osh Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03	WOOD Port Edwa Raw Water/ Well & Lake Nepco - <.1 - <.02 <.5 <.2 <.01 <.03	N41 Copper serv.  ards Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper	Ne   Raw Water	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5 <.2 <.01 <.03 .03 -	Copper serv.  BAGO  Oshk  Raw Water/ L. Winnebago  -  <.1 .30 <.02 <.5 <.2 <.01 <.03 <.03 <.03	Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05	WOOD Port Edwa Raw Water/ Well & Lake Nepco	N41 Copper serv.  ards Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03
County and Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium	Ne   Raw Water/   L. Winnebago   -	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5 <.2 <.01 <.03	copper serv.  BAGO Oshk Raw Water/ L. Winnebago  - <.1 .30 <.02 <.5 <.2 <.01 <.03	osh Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05 -	WOOD Port Edwa Raw Water/ Well & Lake Nepco	N41 Copper serv.  Irds Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 <.03 <.01
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury	Ne   Raw Water/   L. Winnebago   -	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5 <.2 <.01 <.03 .03 -	Copper serv.  BAGO  Oshk  Raw Water/ L. Winnebago  -  <.1 .30 <.02 <.5 <.2 <.01 <.03 <.03 <.0304 <.0002	Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05	WOOD Port Edwa Raw Water/ Well & Lake Nepco	N41 Copper serv.  ards Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver	Ne   Raw Water/   L. Winnebago   -	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5 <.2 <.01 <.03 .03 .03 <.04 <.0002 <.04	copper serv.  BAGO  Oshk  Raw Water/ L. Winnebago  -  <.1 .30 <.02 <.5 <.2 <.01 <.03 <.03 <.03 - <.04 <.0002 <.04 <.0002 <.04	Osh Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05 <.04 <.0002 <.04	WOOD Port Edwa Raw Water/ Well & Lake Nepco - <.1 - <.02 <.5 <.2 <.01 <.03 .04 <.01 <.04 <.01 <.04 <.0002 <.04	N41 Copper serv.  Inds Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 <.01 <.04 <.0002 <.04
County and Community Source of Sample  Treatment  MBAS  Ammonia(N)  Arsenic  Barium  Boron  Cadmium  Chromium  Copper  Cyanide  Lead  Mercury  Silver  Zinc	Ne   Raw Water/   L. Winnebago   -	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5 <.2 <.01 <.03 .03 .03 - <.04 <.0002	Copper serv.  BAGO  Oshk  Raw Water/ L. Winnebago  -  <.1 .30 <.02 <.5 <.2 <.01 <.03 <.03 <.0304 <.0002	Osh Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05 - <.04 <.0002	WOOD Port Edwa Raw Water/ Well & Lake Nepco - - <.1 - <.02 <.5 <.2 <.01 <.03 .04 <.01 <.01 <.04	N41 Copper serv.  Irds  Distribution System  Purification Plant <.1 - <.02 <.5 <.2 <.01 <.03 <.03 <.01 <.04 <.0002
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity	Ne   Raw Water   L. Winnebago   -	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5 <.2 <.01 <.03 .03 - <.04 <.0002 <.04 .01 .01	Copper serv.  EBAGO  Oshk  Raw Water/ L. Winne bago	Osh Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05 - <.04 <.0002 <.04 0.002	WOOD Port Edwa Raw Water/ Well & Lake Nepco - <.1 - <.02 <.5 <.2 <.01 <.03 .04 <.01 <.04 <.0002 <.04 .004 .004	N41 Copper serv.  Irds Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 <.01 <.04 <.0002 <.04 .0002 <.04 .002
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub>	Ne   Raw Water   L. Winnebago   -	service line  WINNI enah  Distribution System  Purification Plant  <.1	Copper serv.  EBAGO  Oshk  Raw Water/ L. Winne bago	osh Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05 - <.04 <.0002 <.04 0.02  154	WOOD Port Edwa Raw Water/ Well & Lake Nepco	N41 Copper serv.  Irds  Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.01 <.04 <.0002 <.04 .0002 <.04 .002
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zine Alkalinity Tot.(CaCO <sub>3</sub> Calcium	Ne   Raw Water/   L. Winnebago   -	service line  WINNI enah  Distribution System  Purification Plant  <.1     .21 <.02 <.5 <.2 <.01 <.03     .03     .03     .03     .04 <.0002 <.04     .01  28 13	copper serv.  EBAGO  Oshk  Raw Water/ L. Winne bago  -  <.1 .30 .002 <.5 <.2 .001 <.03 <.03 <.03 <.04 .0002 <.04 .01  180 44	Osh Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05 <.04 <.0002 <.04 0.02  154 42	N55  WOOD Port Edwa Raw Water/ Well & Lake Nepco  -  <.1 - <.02 <.5 <.2 <.01 <.03 .04 <.01 <.04 <.001 <.04 <.0002 <.04 .04 94 40	N41 Copper serv.  Irds  Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 <.01 <.04 <.0002 <.04 .02 56 17
County and Community Source of Sample Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> Calcium Chlorides	Ne   Raw Water	service line  WINNI enah  Distribution System  Purification Plant  <.1	Copper serv.  BAGO  Oshk  Raw Water/ L. Winnebago  -  <.1 .30 <.02 <.5 <.2 <.01 <.03 <.03 <.03 - <.04 <.0002 <.04 <.0002 <.04 .01  180 44 9	Osh Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05 <.04 <.0002 <.04 0.02  154 42 12	WOOD Port Edwa Raw Water/ Well & Lake Nepco -  <.1 - <.02 <.5 <.2 <.01 <.03 .04 <.01 <.004 <.01 <.004 <.0002 <.04 .004  904 400 42	N41 Copper serv.  Inds Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 <.01 <.04 <.0002 <.04 .02  56 17 50
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> Calcium Chlorides Fluorides	Ne   Raw Water	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5 <.2 <.01 <.03 .03 - <.04 <.0002 <.04 .01  28 13 15 1.30	copper serv.  BAGO  Oshk  Raw Water/ L. Winnebago  -  <.1 .30 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 .01  180 444 9 0.35	osh  Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05 - <.04 <.0002 <.04 0.02  154 42 12 .30	WOOD Port Edwa Raw Water/ Well & Lake Nepco - <.1 - <.02 <.5 <.2 <.01 <.03 .04 <.01 <.04 <.01 <.04 <.0002 <.04 <.04 04	N41 Copper serv.  Inds Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 <.01 <.04 <.0002 <.04 .02  56 17 50 1.20
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> Calcium Chlorides Fluorides Hardness(To	Raw Water/ L. Winnebago  -  <.1	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5 <.2 <.01 <.03 .03 - <.04 <.00002 <.04 .01  28 13 15 1.30 72	copper serv.  EBAGO  Oshk  Raw Water/ L. Winne bago  -  <.1 .30 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.00002 <.04 .01 180 44 9 0.35 200	osh  Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05 - <.04 <.0002 <.04 0.002  154 42 12 .30 208	WOOD Port Edwa Raw Water/ Well & Lake Nepco -  <.1 - <.02 <.5 <.2 <.01 <.03 .04 <.01 <.04 <.0002 <.04 .04 <.0002 <.04 .04 .04 .05 .05 .06 .06 .07 .09 .09 .09 .09 .09 .09 .09 .09 .09 .09	N41 Copper serv.  Irds Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 <.01 <.04 <.0002 <.04 <.0002 <.04 .02  56 17 50 1.20 88
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> Calcium Chlorides Fluorides Fluorides Hardness(To Iron	Raw Water/ L. Winnebago  -  <.1     .12     <.02     <.5     <.2     <.01     <.03     <.03     -     <.04     <.0002     <.04     <.0002     <.04     .05 ) 170     40     9     .40 t.) 192     .24	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5 <.2 <.01 <.03 .03 - <.04 <.0002 <.04 .01 28 13 15 1.30 72 .12	Copper serv.  EBAGO  Oshk  Raw Water/ L. Winne bago  -  <.1 .30 <.02 <.5 <.2 <.01 <.03 <.03 <.03 - <.04 <.0002 <.04 .01  180 44 9 0.35 200 0.2	Osh Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05 - <.04 <.0002 <.04 0.02  154 42 12 .30 208 0.12	WOOD Port Edwa Raw Water/ Well & Lake Nepco -  <.1 - <.02 <.5 <.2 <.01 <.03 .04 <.01 <.04 <.0002 <.04 .04 <.0002 <.04 .04  94 40 42 .25 156 1.5	N41 Copper serv.  Irds Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 <.01 <.04 <.0002 <.04 <.0002 <.04 .02  56 17 50 1.20 88 .08
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> Calcium Chlorides Fluorides Hardness(To	Raw Water/ L. Winnebago  -  <.1	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5 <.2 <.01 <.03 .03 - <.04 <.00002 <.04 .01  28 13 15 1.30 72	copper serv.  EBAGO  Oshk  Raw Water/ L. Winnebago  -  <.1 .30 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 .01  180 44 9 0.35 200 0.2 22	osh  Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05 - <.04 <.0002 <.04 0.002  154 42 12 .30 208	WOOD Port Edwa Raw Water/ Well & Lake Nepco	N41 Copper serv.  Inds Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 <.03 <.01 <.04 <.0002 <.04 .02  56 17 50 1.20 88 .08 11
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> Calcium Chlorides Fluorides Hardness(To Iron Magnesium	Ne   Raw Water	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5 <.2 <.01 <.03 .03 - <.04 <.0002 <.04 .01  28 13 15 1.30 72 .12 10 <.04	Copper serv.  EBAGO  Oshk  Raw Water/ L. Winne bago  -  <.1 .30 <.02 <.5 <.2 <.01 <.03 <.03 <.03 - <.04 <.0002 <.04 .01  180 44 9 0.35 200 0.2	Osh Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05 - <.04 <.0002 <.04 0.02  154 42 12 .30 208 0.12 25	WOOD Port Edwa Raw Water/ Well & Lake Nepco -  <.1 - <.02 <.5 <.2 <.01 <.03 .04 <.01 <.04 <.0002 <.04 .04 <.0002 <.04 .04  94 40 42 .25 156 1.5	N41 Copper serv.  Irds Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 <.01 <.04 <.0002 <.04 <.0002 <.04 .02  56 17 50 1.20 88 .08
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> Calcium Chlorides Fluorides Fluorides Hardness(To Iron Magnesium Manganese Nitrite + Nitrate-(N	Raw Water/ L. Winnebago  -  <.1	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5 <.2 <.01 <.03 .03 - <.04 <.00002 <.04 .01  28 13 15 1.30 72 .12 10 <.04 .5	copper serv.  EBAGO  Oshk  Raw Water/ L. Winne bago  -  <.1 .30 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.00002 <.04 .01  180  44 9 0.35 200 0.2 22 <.04 1	Osh Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05 - <.04 <.0002 <.04 0.02  154 42 12 .30 208 0.12 25	WOOD Port Edwa Raw Water/ Well & Lake Nepco	N41 Copper serv.  Inds Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 <.03 <.01 <.04 <.0002 <.04 .02  56 17 50 1.20 88 .08 11
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> Calcium Chlorides Fluorides Fluorides Hardness(To Iron Magnesium Manganese Nitrite + Nitrate-(N Sodium	Raw Water/ L. Winnebago  -  <.1	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5 <.2 <.01 <.03 .03 - <.04 <.00002 <.04 .01  28 13 15 1.30 72 .12 10 <.04 .5 6.5	copper serv.  EBAGO  Oshk  Raw Water/ L. Winne bago  -  <.1 .30 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 .01  180 44 9 0.35 200 0.2 22 <.04 1 6.5	Osh Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05 - <.04 <.0002 <.04 0.02  154 42 12 .30 208 0.12 25 <.04 0.9 6.5	WOOD Port Edwa Raw Water/ Well & Lake Nepco -  <.1 - <.02 <.5 <.2 <.01 <.03 .04 <.01 <.04 <.001 <.04 <.0002 <.04 .004  94 40 42 .25 156 1.5 13.5 1.5 1.3	N41 Copper serv.  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 <.01 <.04 <.0002 <.04 <.0002 <.04 <.002 <.06 17 50 1.20 88 .08 11 <.04 1.2 54
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> Calcium Chlorides Fluorides Fluorides Hardness(To Iron Magnesium Manganese Nitrite + Nitrate-(N Sodium Sulfates	Raw Water/ L. Winnebago  -  <.1	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5 <.2 <.01 <.03 .03 - <.04 <.00002 <.04 .01  28 13 15 1.30 72 .12 10 <.04 .5	copper serv.  EBAGO  Oshk  Raw Water/ L. Winne bago  -  <.1 .30 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.00002 <.04 .01  180  44 9 0.35 200 0.2 22 <.04 1	Osh  Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05 - <.04 <.0002 <.04 0.02  154 42 12 .30 208 0.12 25 <.04 0.9	WOOD Port Edwa Raw Water/ Well & Lake Nepco - <.1 - <.02 <.5 <.2 <.01 <.03 .04 <.01 <.04 <.0002 <.04 <.0002 <.04 .04 94 40 42 .25 156 1.5 1.5 1.3	N41 Copper serv.  Irds Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 <.01 <.04 <.0002 <.04 <.0002 <.04 .02  56 17 50 1.20 88 .08 11 <.04 1.2
County and Community Source of Sample  Treatment  TMBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> Calcium Chlorides Fluorides Hardness(To Iron Magnesium Manganese Nitrite + Nitrate-(N Sodium Sulfates Total	Ne   Raw Water/   L. Winnebago   -	service line  WINNI enah  Distribution System  Purification Plant  <.1	copper serv.  EBAGO  Oshk  Raw Water/ L. Winnebago  -  <.1 .30 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 .01  180 44 9 0.35 200 0.2 22 <.04 1 6.5 20	Osh Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05 <.04 <.0002 <.04 0.02  154 42 12 .30 208 0.12 25 <.04 0.9 6.5 41	WOOD Port Edwa Raw Water/ Well & Lake Nepco -  <.1 - <.02 <.5 <.2 <.01 <.03 .04 <.01 <.04 <.0002 <.04 .04 94 40 42 .25 156 1.5 1.5 1.3 16 43	N41 Copper serv.  Inds Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 <.01 <.04 <.0002 <.04 .02  56 17 50 1.20 88 .08 11 <.04 1.2 54 62
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> Calcium Chlorides Fluorides Hardness(To Iron Magnesium Manganese Nitrite + Nitrate-(N Sodium Sulfates Total	Ne   Raw Water	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5 <.2 <.01 <.03 .03 - <.04 <.0002 <.04 .01  28 13 15 1.30 72 .12 10 <.04 .5 6.5 37	Copper serv.  EBAGO  Oshk  Raw Water/ L. Winnebago  -  <.1 .30 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 .01  180 \(\frac{1}{4}\) \(\frac{1}{4}\) \(\frac{9}{4}\) \(\frac{1}{6}\) \(\frac{1}{6}\) \(\frac{1}{2}\)  248	Osh  Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05 - <.04 <.00002 <.04 0.02  154 42 12 .30 208 0.12 25 <.04 0.9 6.5 41 250	WOOD Port Edwa Raw Water/ Well & Lake Nepco	N41 Copper serv.  Inds Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 <.01 <.04 <.0002 <.04 .02  56 17 50 1.20 88 .08 11 <.04 1.2 54 62 242
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> Calcium Chlorides Fluorides Hardness(To Iron Magnesium Manganese Nitrite + Nitrate-(N Sodium Sulfates Total Solids TpH (Lab)	Ne Raw Water/ L. Winnebago   <.1	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5 <.2 <.01 <.03 .03 - <.04 <.0002 <.04 .01  28 13 15 1.30 72 .12 10 <.04 .5 6.5 37	Copper serv.  EBAGO  Oshk  Raw Water/ L. Winnebago  -  <.1 .30 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 .01  180 .44 .9 0.35 200 0.2 22 <.04 1 6.5 20 248 7.8	Osh  Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05 - <.04 <.00002 <.04 0.02  154 42 12 .30 208 0.12 25 <.04 0.9 6.5 41 250 7.5	WOOD Port Edwa Raw Water/ Well & Lake Nepco	N41 Copper serv.  Inds Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 <.01 <.04 <.0002 <.04 .02  56 17 50 1.20 88 .08 11 <.04 1.2 54 62 242 8.4
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> Calcium Chlorides Fluorides Hardness(To Iron Magnesium Manganese Nitrite + Nitrate-(N Sodium Sulfates Total Solids pH (Lab) pH (Field)	Raw Water/ L. Winnebago  -  <.1	service line  WINNI enah  Distribution System  Purification Plant  <.1	Copper serv.  EBAGO  Oshk  Raw Water/ L. Winnebago  -  <.1 .30 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 .01  180 44 9 0.35 200 0.2 22 <.04 1 6.5 20  248 7.8	Osh  Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05 - <.04 <.0002 <.04 0.02  154 42 12 .30 208 0.12 25 <.04 0.9 6.5 41 250 7.5 -	WOOD Port Edwa Raw Water/ Well & Lake Nepco	N41 Copper serv.  Inds Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 <.01 <.04 <.0002 <.04 .02  56 17 50 1.20 88 .08 11 <.04 1.2 54 62 242 8.4 8.7
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> Calcium Chlorides Fluorides Hardness(To Iron Magnesium Manganese Nitrite + Nitrate-(N Sodium Sulfates Total Solids TpH (Lab)	Ne Raw Water/ L. Winnebago   <.1	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5 <.2 <.01 <.03 .03 - <.04 <.0002 <.04 .01  28 13 15 1.30 72 .12 10 <.04 .5 6.5 37	Copper serv.  EBAGO  Oshk  Raw Water/ L. Winnebago  -  <.1 .30 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 .01  180 .44 .9 0.35 200 0.2 22 <.04 1 6.5 20 248 7.8	Finished Water  Purification Plant  <.1     .18     <.02     <.5     <.2     <.01     <.03     .05     -     <.04     <.0002     <.04     <.0002     <.04     0.02  154     42     12     .30 208     0.12 25     <.04     0.9 6.5 41 250 7.5 - Copper	WOOD Port Edwa Raw Water/ Well & Lake Nepco -  <.1 - <.02 <.5 <.2 <.01 <.03 .04 <.01 <.04 <.0002 <.04 .04 <.0002 <.04 .04 3 16 43 248 8.1 7.2 Lake wtr.	N41 Copper serv.  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 <.01 <.04 <.0002 <.04  .02  56 17 50 1.20 88 .08 11 <.04 1.2 54 62 242 8.4 8.7 Galvanized
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> Calcium Chlorides Fluorides Hardness(To Iron Magnesium Manganese Nitrite + Nitrate-(N Sodium Sulfates Total Solids pH (Lab) pH (Field)	Raw Water/ L. Winnebago  -  <.1	service line  WINNI enah  Distribution System  Purification Plant  <.1 .21 <.02 <.5 <.2 <.01 <.03 .03 .03 <.04 <.0002 <.04 .01  28 13 15 1.30 72 .12 10 <.04 .5 6.5 37 152 9.1  Tot. Org. N22 - Lead serv. with	copper serv.  EBAGO  Oshk  Raw Water/ L. Winne bago  -  <.1 .30 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 .01  180 44 9 0.35 200 0.2 22 <.04 1 6.5 20  248 7.8 - Tot. Org.	Osh  Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05 - <.04 <.0002 <.04 0.02  154 42 12 .30 208 0.12 25 <.04 0.9 6.5 41 250 7.5 -	WOOD Port Edwa Raw Water/ Well & Lake Nepco -  <.1 - <.02 <.5 <.2 <.01 <.03 .04 <.01 <.04 <.0002 <.04 .04 <.0002 <.04 .04 3 16 43 248 8.1 7.2 Lake wtr.	N41 Copper serv.  Inds Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 <.01 <.04 <.0002 <.04 .02  56 17 50 1.20 88 .08 11 <.04 1.2 54 62 242 8.4 8.7 Galvanized service
County and Community Source of Sample  Treatment  MBAS Ammonia(N) Arsenic Barium Boron Cadmium Chromium Copper Cyanide Lead Mercury Silver Zinc Alkalinity Tot.(CaCO <sub>3</sub> Calcium Chlorides Fluorides Hardness(To Iron Magnesium Manganese Nitrite + Nitrate-(N Sodium Sulfates Total Solids pH (Lab) pH (Field)	Raw Water/ L. Winnebago  -  <.1	service line  WINNI enah  Distribution System  Purification Plant  <.1	copper serv.  EBAGO  Oshk  Raw Water/ L. Winne bago  -  <.1 .30 <.02 <.5 <.2 <.01 <.03 <.03 - <.04 <.0002 <.04 .01  180 44 9 0.35 200 0.2 22 <.04 1 6.5 20  248 7.8 - Tot. Org.	Osh Finished Water  Purification Plant  <.1 .18 <.02 <.5 <.2 <.01 <.03 .05 - <.04 <.0002 <.04 0.02  154 42 12 .30 208 0.12 25 <.04 0.9 6.5 41 250 7.5 - Copper service &	WOOD Port Edwa Raw Water/ Well & Lake Nepco -  <.1 - <.02 <.5 <.2 <.01 <.03 .04 <.01 <.04 <.001 <.04 <.0002 <.04 .04 94 40 42 .25 156 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.4 248 8.1 7.2 Lake wtr. treated	N41 Copper serv.  Inds Distribution System  Purification Plant  <.1 - <.02 <.5 <.2 <.01 <.03 <.03 <.01 <.04 <.0002 <.04 .02  56 17 50 1.20 88 .08 11 <.04 1.2 54 62 242 8.4 8.7 Galvanized service

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Edited by Ruth L. Hine

COVER: Lake Michigan

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